

# HALLIBURTON

## MICROLOG

|                          |                         |                      |                 |
|--------------------------|-------------------------|----------------------|-----------------|
| COMPANY                  |                         | BEREXCO INC.         |                 |
| WELL                     |                         | WELLINGTON KGS #1-32 |                 |
| FIELD                    |                         | WELLINGTON           |                 |
| COUNTY                   |                         | SUMNER               |                 |
| STATE                    |                         | KANSAS               |                 |
| Permanent Datum          |                         | GROUND LEVEL         |                 |
| Log measured from        |                         | KELLY BUSHING        |                 |
| Drilling measured from   |                         | KELLY BUSHING        |                 |
| Date                     | 09-Feb-11               | Elev. 1259.0 ft      | Elev. 1272.0 ft |
| Run No.                  | 2                       |                      |                 |
| Depth - Driller          | 5240.00 ft              |                      |                 |
| Depth - Logger           | 5240.0 ft               |                      |                 |
| Bottom - Logged Interval | 5217.0 ft               |                      |                 |
| Top - Logged Interval    | 607.0 ft                |                      |                 |
| Casing - Driller         | 9.625 in @ 607.0 ft     |                      |                 |
| Casing - Logger          | 607.0 ft                |                      |                 |
| Bit Size                 | 7.875 in                | @                    | @               |
| Type Fluid in Hole       | WATER BASED MUD         |                      |                 |
| Density                  | 9.0 ppg                 | 48.00 s/qt           |                 |
| PH                       | 10.00 pH                | 9.2 cp/m             |                 |
| Source of Sample         | FLOW LINE               |                      |                 |
| Rm @ Meas. Temperature   | 0.650 ohmm @ 58.00 degF | @                    | @               |
| Rmf @ Meas. Temperature  | 0.55 ohmm @ 58.00 degF  | @                    | @               |
| Rmc @ Meas. Temperature  | 0.750 ohmm @ 58.00 degF | @                    | @               |
| Source Rmf               | MEAS Rmc                |                      |                 |
| Rm @ BHT                 | 0.26 ohmm @ 125.0 degF  | @                    | @               |
| Time Since Circulation   | 4.0 hr                  |                      |                 |
| Time on Bottom           | 09-Feb-11 04:46         |                      |                 |
| Max. Rec. Temperature    | 125.0 degF @ 5240.0 ft  | @                    | @               |
| Equipment                | 10546696 LIBERAL        |                      |                 |
| Recorded By              | J. BOSH                 |                      |                 |
| Witnessed By             | L. WATNEY               | K. CRISLER           | G. KORALEGEDARA |

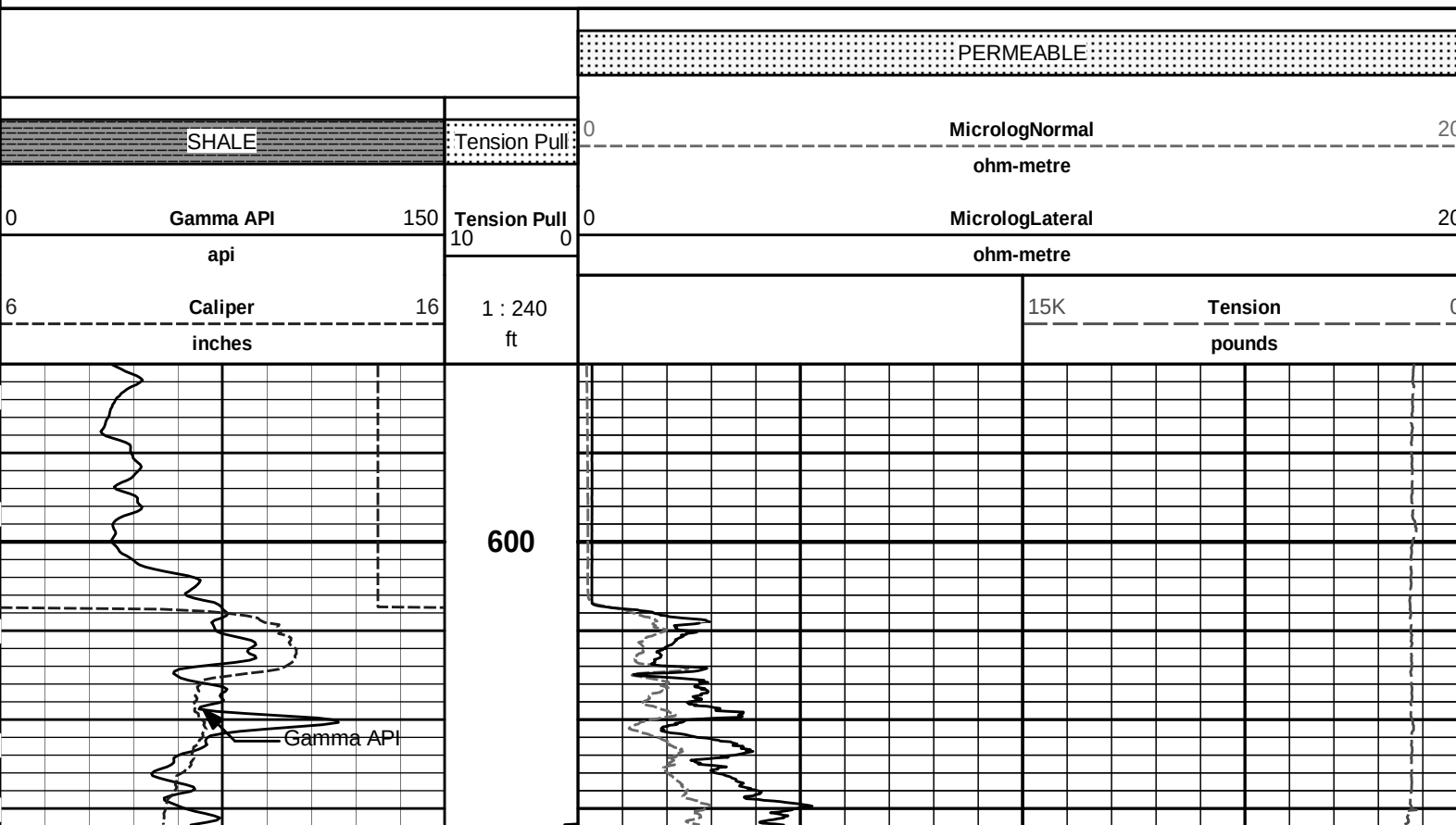
Fold here

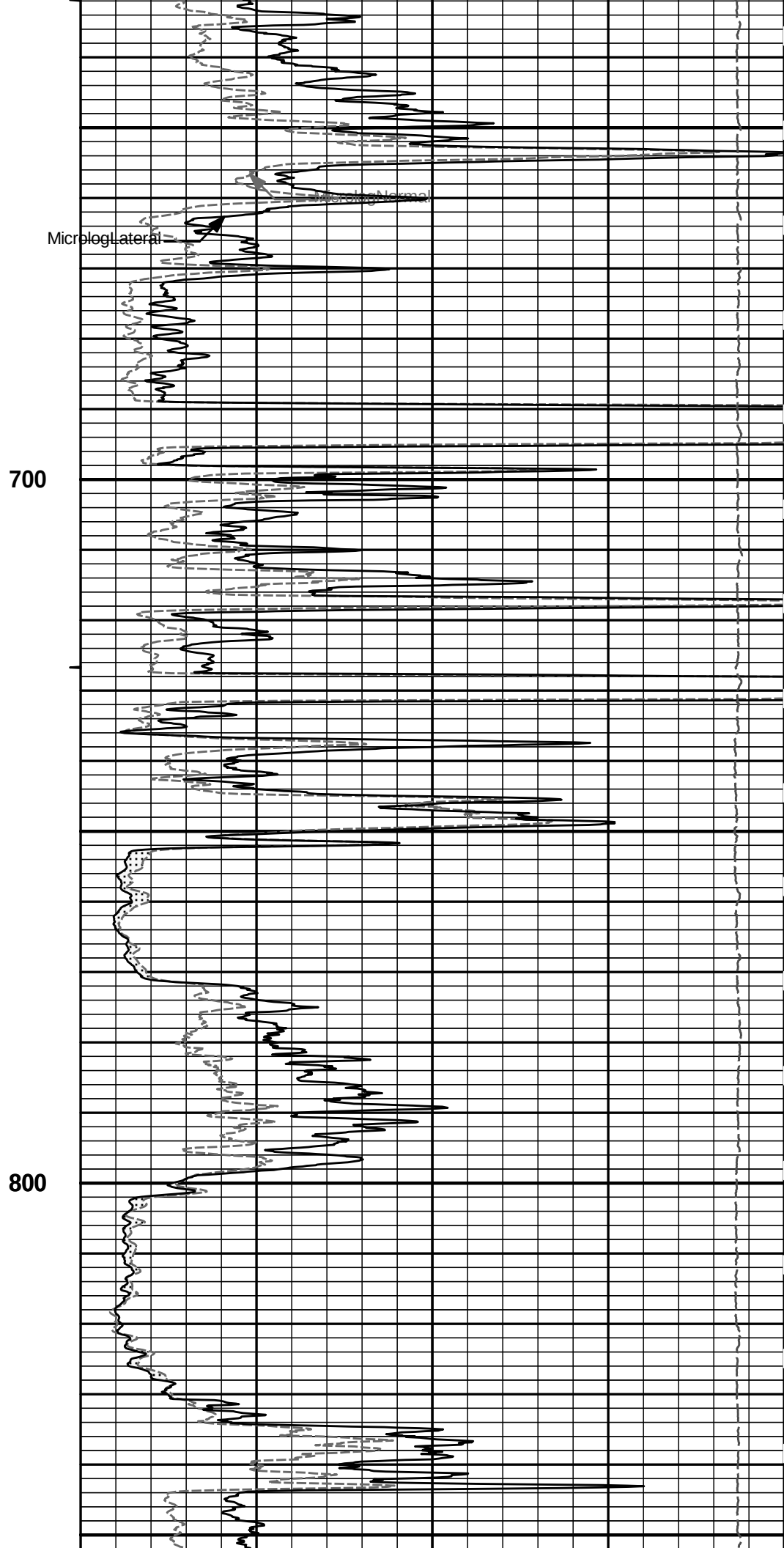
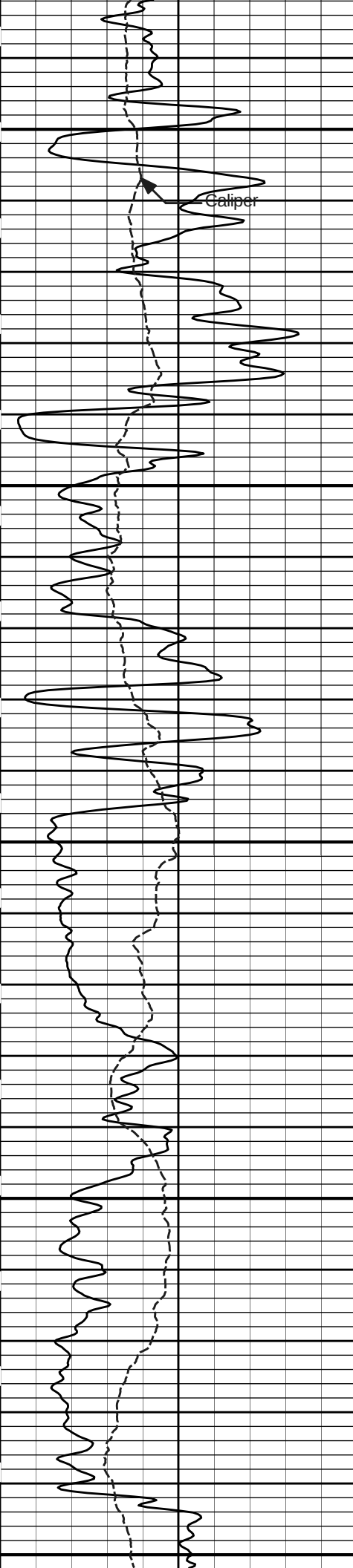
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|-----------------------------------------|------------|--|---|------------------------------|--|----------------------------|-----------------|-----------------------------------------|-----------------|-------|--|-------------|--|--|--|---------|--|--|--|
| Service Ticket No.: 7942786             |            |  |   | API Serial No.: 15-191-22591 |  |                            |                 | PGM Version: WL INSITE R3.2.0 (Build 7) |                 |       |  |             |  |  |  |         |  |  |  |
| CHANGE IN MUD TYPE OR ADDITIONAL SAMPLE |            |  |   |                              |  | RESISTIVITY SCALE CHANGES  |                 |                                         |                 |       |  |             |  |  |  |         |  |  |  |
| Date                                    | Sample No. |  |   |                              |  | Type Log                   | Depth           | Scale Up Hole                           | Scale Down Hole |       |  |             |  |  |  |         |  |  |  |
| Depth-Driller                           |            |  |   |                              |  |                            |                 |                                         |                 |       |  |             |  |  |  |         |  |  |  |
| Type Fluid in Hole                      |            |  |   |                              |  |                            |                 |                                         |                 |       |  |             |  |  |  |         |  |  |  |
| Density                                 | Viscosity  |  |   |                              |  |                            |                 |                                         |                 |       |  |             |  |  |  |         |  |  |  |
| Ph                                      | Fluid Loss |  |   |                              |  |                            |                 |                                         |                 |       |  |             |  |  |  |         |  |  |  |
| Source of Sample                        |            |  |   |                              |  | RESISTIVITY EQUIPMENT DATA |                 |                                         |                 |       |  |             |  |  |  |         |  |  |  |
| Rm @ Meas. Temp                         | @          |  | @ |                              |  | Run No.                    | Tool Type & No. | Pad Type                                | Tool Pos.       | Other |  |             |  |  |  |         |  |  |  |
| Rmf @ Meas. Temp.                       | @          |  | @ |                              |  | TWO                        | MICRO P81       | RUBBER                                  | ADJ             | N/A   |  |             |  |  |  |         |  |  |  |
| Rmc @ Meas. Temp.                       | @          |  | @ |                              |  |                            |                 |                                         |                 |       |  |             |  |  |  |         |  |  |  |
| Source Rmf                              | Rmc        |  |   |                              |  |                            |                 |                                         |                 |       |  |             |  |  |  |         |  |  |  |
| Rm @ BHT                                | @          |  | @ |                              |  |                            |                 |                                         |                 |       |  |             |  |  |  |         |  |  |  |
| Rmf @ BHT                               | @          |  | @ |                              |  |                            |                 |                                         |                 |       |  |             |  |  |  |         |  |  |  |
| Rmc @ BHT                               | @          |  | @ |                              |  |                            |                 |                                         |                 |       |  |             |  |  |  |         |  |  |  |
| EQUIPMENT DATA                          |            |  |   |                              |  |                            |                 |                                         |                 |       |  |             |  |  |  |         |  |  |  |
| GAMMA                                   |            |  |   | ACOUSTIC                     |  |                            |                 | DENSITY                                 |                 |       |  | NEUTRON     |  |  |  |         |  |  |  |
| Run No.                                 | TWO        |  |   | Run No.                      |  |                            |                 | Run No.                                 |                 |       |  | Run No.     |  |  |  |         |  |  |  |
| Serial No.                              | 11039640   |  |   | Serial No.                   |  |                            |                 | Serial No.                              |                 |       |  | Serial No.  |  |  |  |         |  |  |  |
| Model No.                               | GTET       |  |   | Model No.                    |  |                            |                 | Model No.                               |                 |       |  | Model No.   |  |  |  |         |  |  |  |
| Diameter                                | 3.625      |  |   | No. of Cent.                 |  |                            |                 | Diameter                                |                 |       |  | Diameter    |  |  |  |         |  |  |  |
| Detector Model No.                      | T-102      |  |   | Spacing                      |  |                            |                 | Log Type                                |                 |       |  | Log Type    |  |  |  |         |  |  |  |
| Type                                    | SCINT      |  |   |                              |  |                            |                 | Source Type                             |                 |       |  | Source Type |  |  |  |         |  |  |  |
| Length                                  | 8"         |  |   | LSA [Y/N]                    |  |                            |                 | Serial No.                              |                 |       |  | Serial No.  |  |  |  |         |  |  |  |
| Distance to Source                      | 10'        |  |   | FWDA [Y/N ]                  |  |                            |                 | Strength                                |                 |       |  | Strength    |  |  |  |         |  |  |  |
| LOGGING DATA                            |            |  |   |                              |  |                            |                 |                                         |                 |       |  |             |  |  |  |         |  |  |  |
| GENERAL                                 |            |  |   | GAMMA                        |  |                            |                 | ACOUSTIC                                |                 |       |  | DENSITY     |  |  |  | NEUTRON |  |  |  |

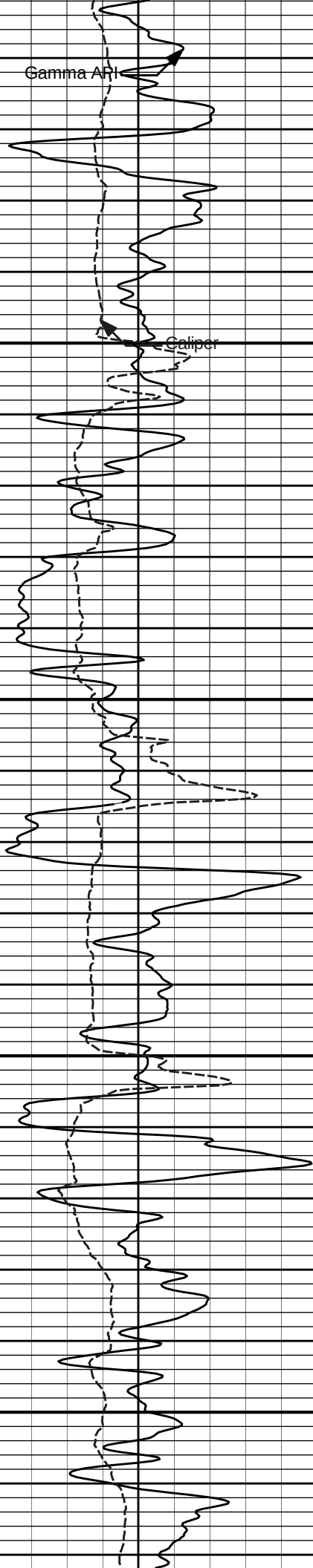
| GENERAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |      |        | GAMMA |     |       |   | ACOUSTIC |       |   |        | DENSITY |   |        |  | NEUTRON |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------|--------|-------|-----|-------|---|----------|-------|---|--------|---------|---|--------|--|---------|--|--|--|
| Run                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Depth |      | Speed  | Scale |     | Scale |   | Matrix   | Scale |   | Matrix | Scale   |   | Matrix |  |         |  |  |  |
| No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | From  | To   | ft/min | L     | R   | L     | R |          | L     | R |        | L       | R |        |  |         |  |  |  |
| TWO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 607   | 5217 | REC    | 0     | 150 |       |   |          |       |   |        |         |   |        |  |         |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |        |       |     |       |   |          |       |   |        |         |   |        |  |         |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |        |       |     |       |   |          |       |   |        |         |   |        |  |         |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |        |       |     |       |   |          |       |   |        |         |   |        |  |         |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |        |       |     |       |   |          |       |   |        |         |   |        |  |         |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |        |       |     |       |   |          |       |   |        |         |   |        |  |         |  |  |  |
| DIRECTIONAL INFORMATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |      |        |       |     |       |   |          |       |   |        |         |   |        |  |         |  |  |  |
| Maximum Deviation @                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |      |        |       |     |       |   |          | KOP @ |   |        |         |   |        |  |         |  |  |  |
| Remarks: ANNULAR HOLE VOLUME CALCULATED FOR 5.5 INCH CASING                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |      |        |       |     |       |   |          |       |   |        |         |   |        |  |         |  |  |  |
| CHLORIDES: 11,000 PPM LCM: 10 LB/BBL                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |      |        |       |     |       |   |          |       |   |        |         |   |        |  |         |  |  |  |
| GPS COORDINATES: LAT: 37.30 N LONG: 97.43 W                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |      |        |       |     |       |   |          |       |   |        |         |   |        |  |         |  |  |  |
| GTET/CSNG/GEM/DSN/SDL/ACRT RAN IN COMBINATION                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |      |        |       |     |       |   |          |       |   |        |         |   |        |  |         |  |  |  |
| TODAY'S CREW: K. KELLY, K. KING                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |      |        |       |     |       |   |          |       |   |        |         |   |        |  |         |  |  |  |
| THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES, LIBERAL, KS 620-624-8123                                                                                                                                                                                                                                                                                                                                                                                                                            |       |      |        |       |     |       |   |          |       |   |        |         |   |        |  |         |  |  |  |
| HALLIBURTON DOES NOT GUARANTEE THE ACCURACY OF ANY INTERPRETATION OF THE LOG DATA, CONVERSION OF LOG DATA TO PHYSICAL ROCK PARAMETERS OR RECOMMENDATIONS WHICH MAY BE GIVEN BY HALLIBURTON PERSONNEL OR WHICH APPEAR ON THE LOG OR IN ANY OTHER FORM. ANY USER OF SUCH DATA, INTERPRETATIONS, CONVERSIONS, OR RECOMMENDATIONS AGREES THAT HALLIBURTON IS NOT RESPONSIBLE EXCEPT WHERE DUE TO GROSS NEGLIGENCE OR WILLFUL MISCONDUCT, FOR ANY LOSS, DAMAGES, OR EXPENSES RESULTING FROM THE USE THEREOF. |       |      |        |       |     |       |   |          |       |   |        |         |   |        |  |         |  |  |  |
| HALLIBURTON                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |      |        |       |     |       |   |          |       |   |        |         |   |        |  |         |  |  |  |

**HALLIBURTON** Plot Time: 09-Feb-11 17:08:34  
 Plot Range: 580 ft to 5250.25 ft  
 Data: WELINGTN\_KGS\_R2\Well Based\DAQ-0001-002\  
 Plot File: \\LOCAL-\\WELLINGTON\_KGS\0001 SP-GTET-DSN-SDL-ACRT-CH\MICRO\Microlog\_IQ\_5\_main.lib

# 5 INCH MAIN LOG

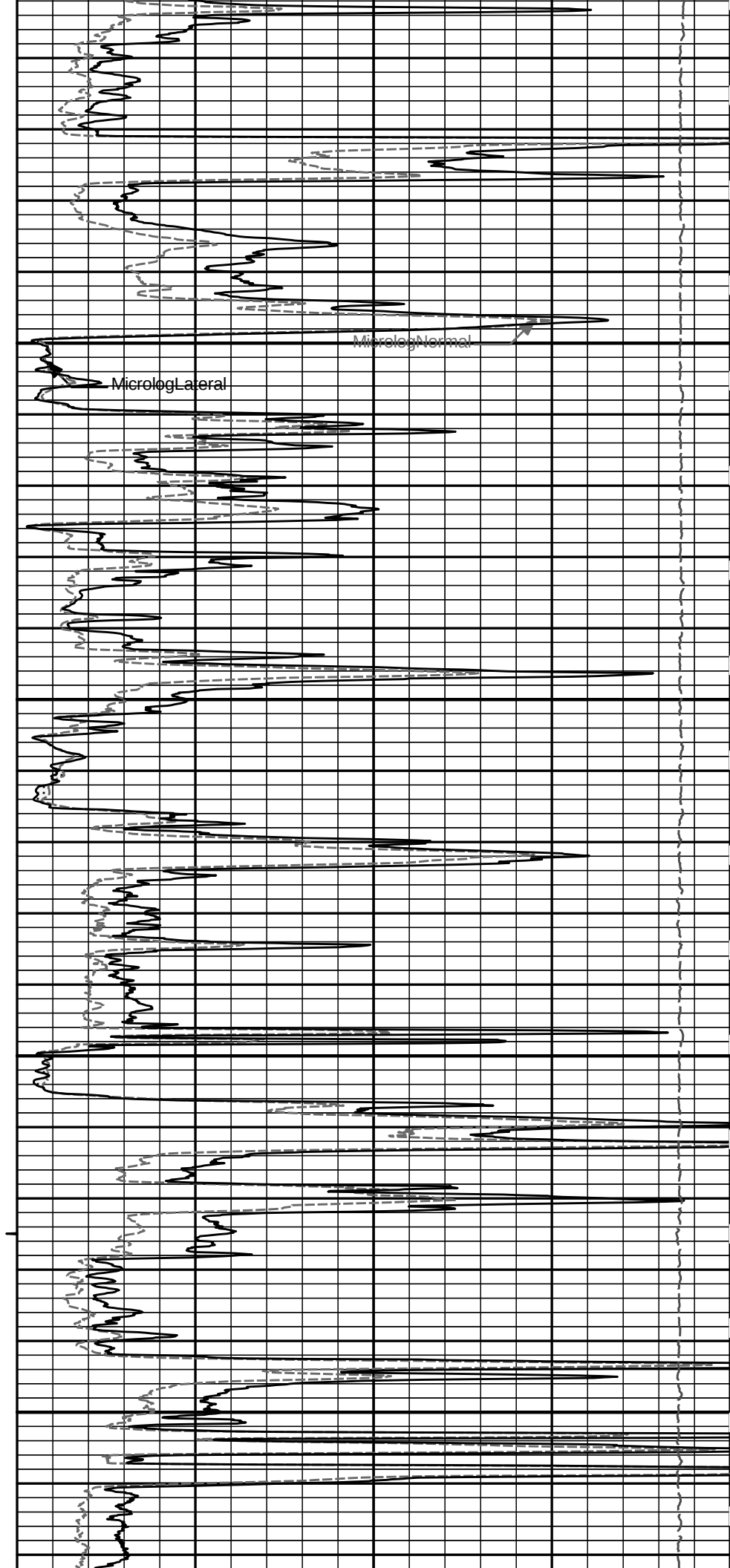


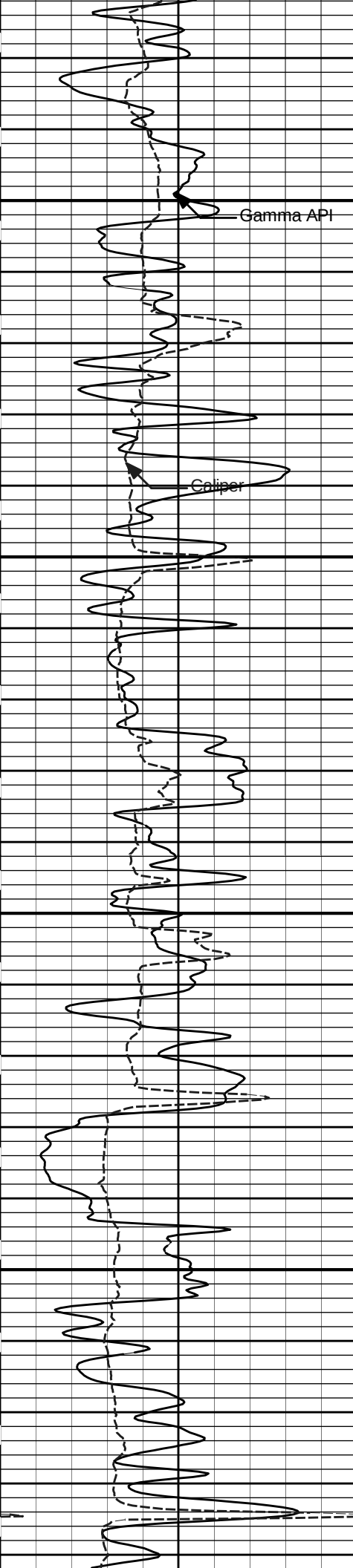




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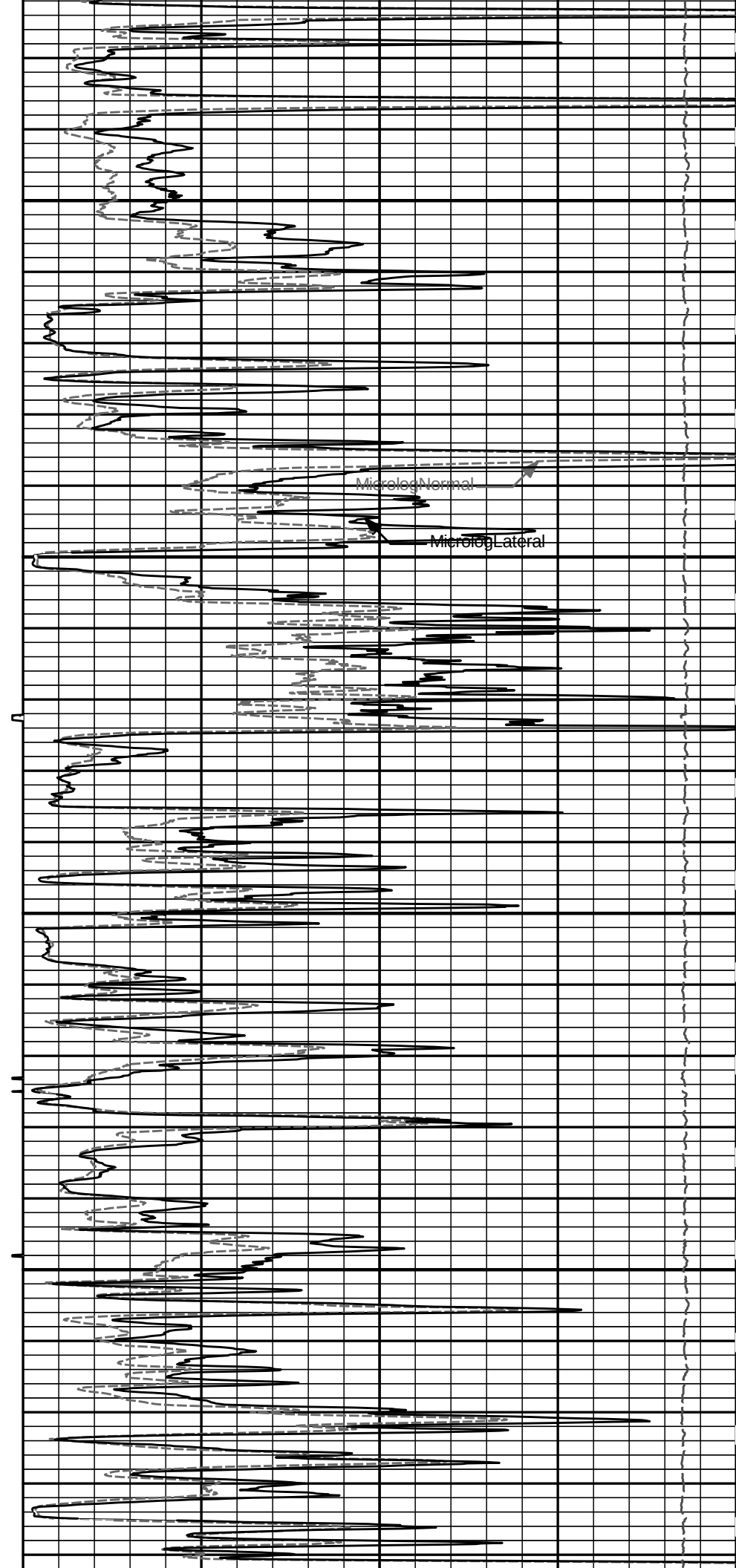
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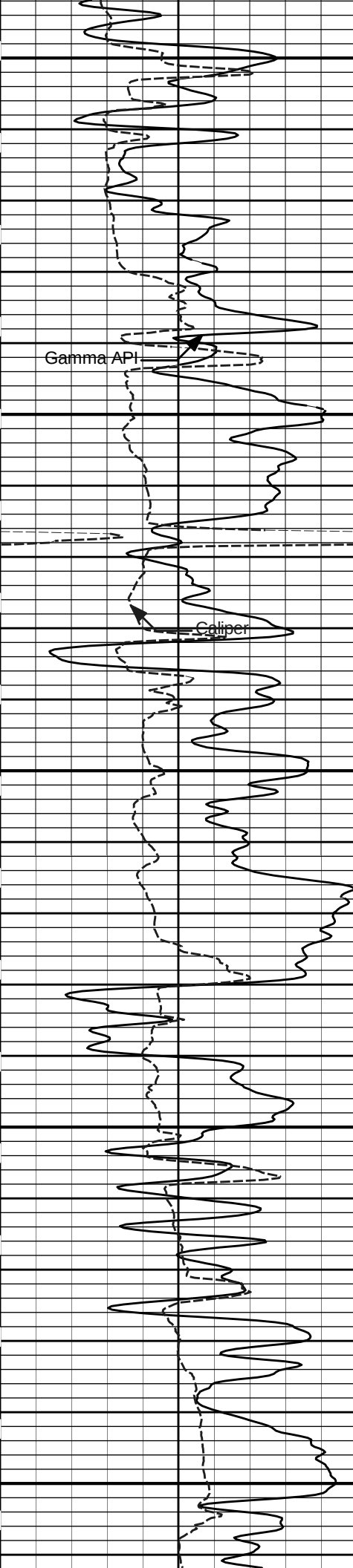




1100

1200

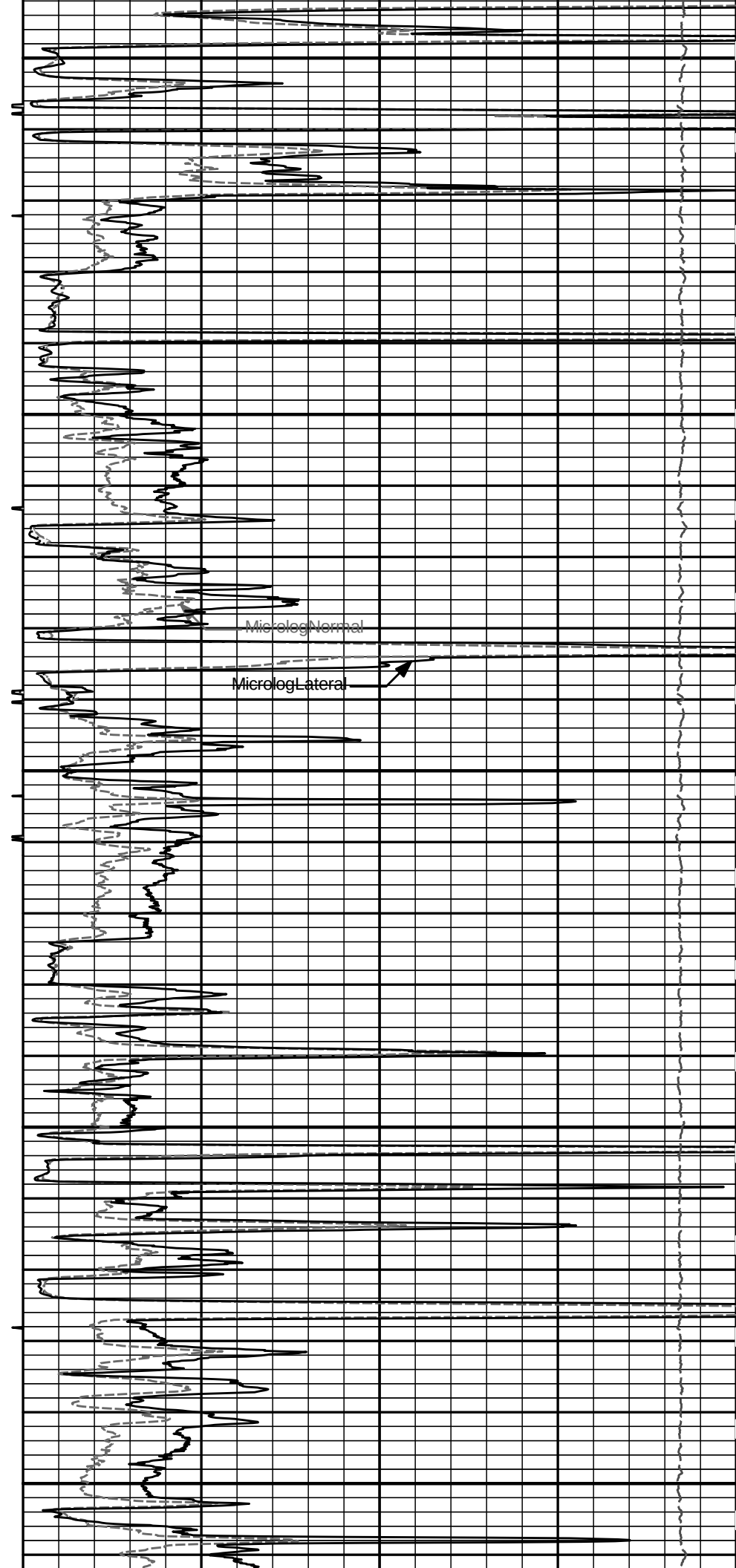


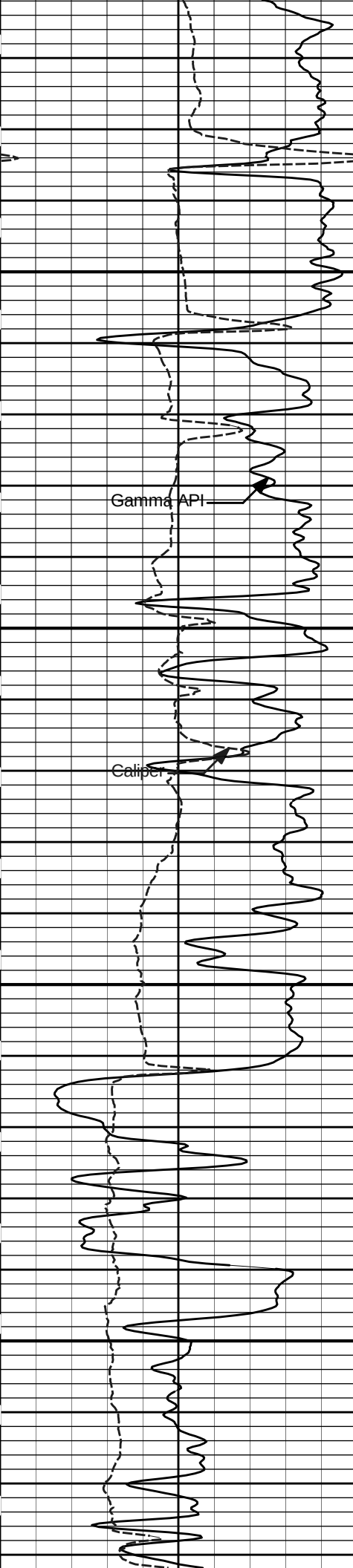


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1400

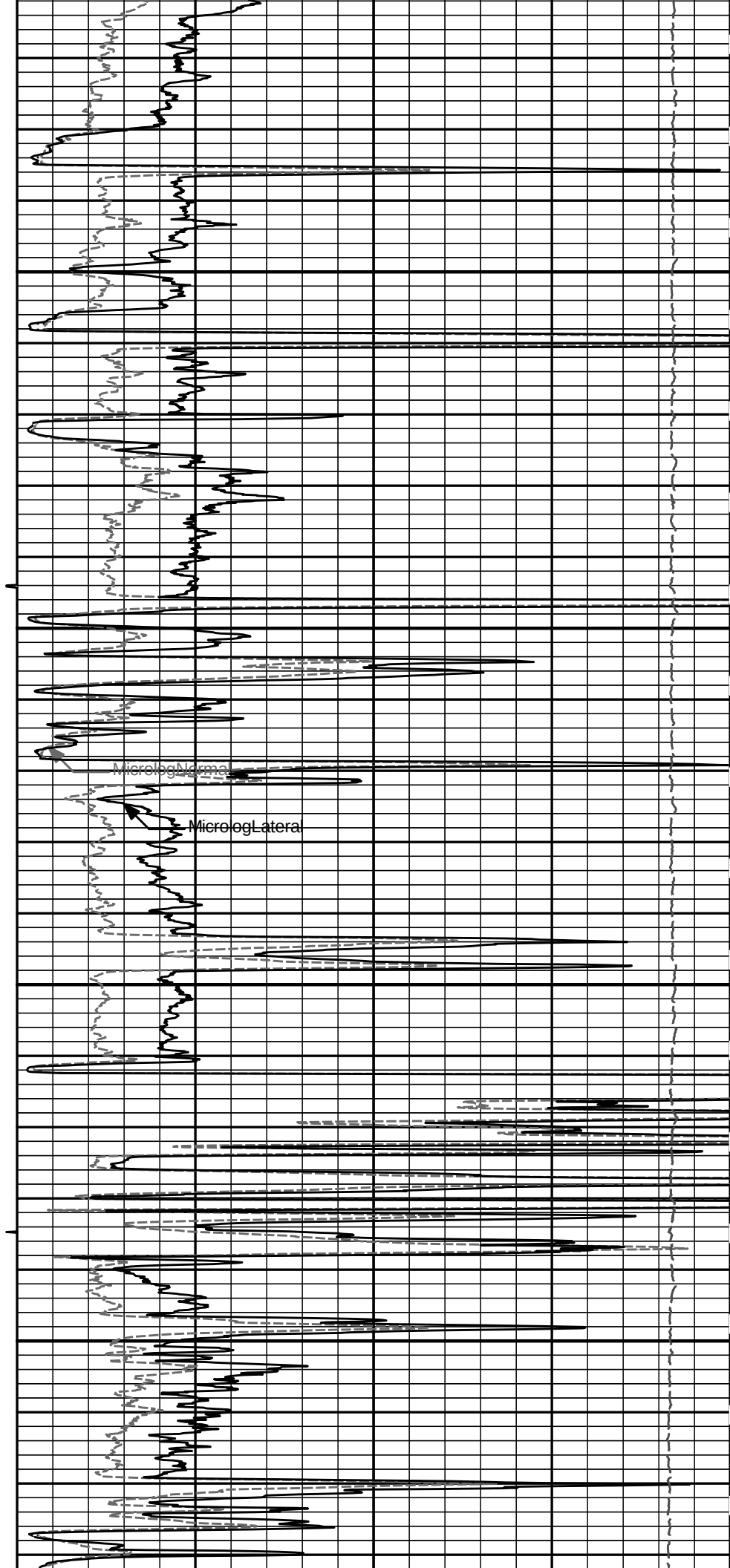
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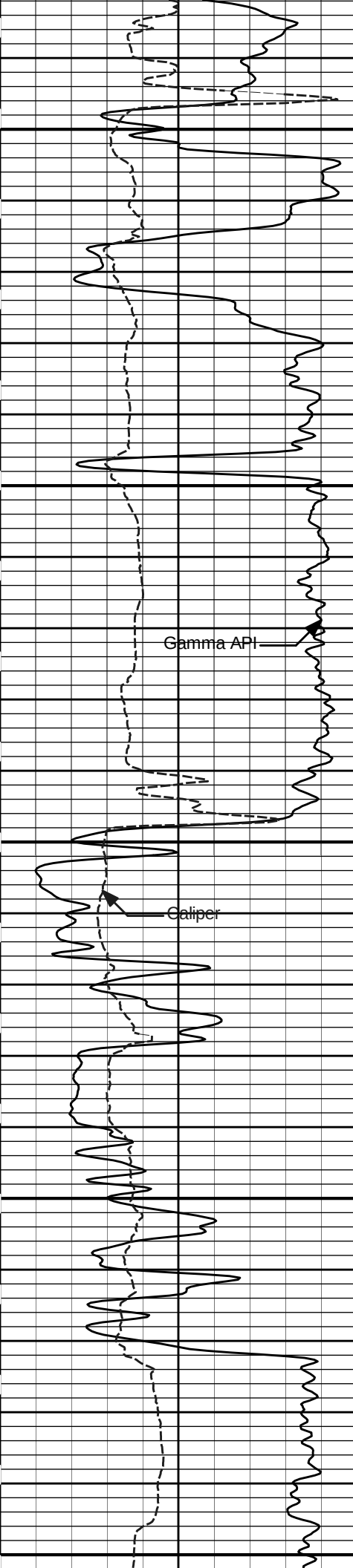




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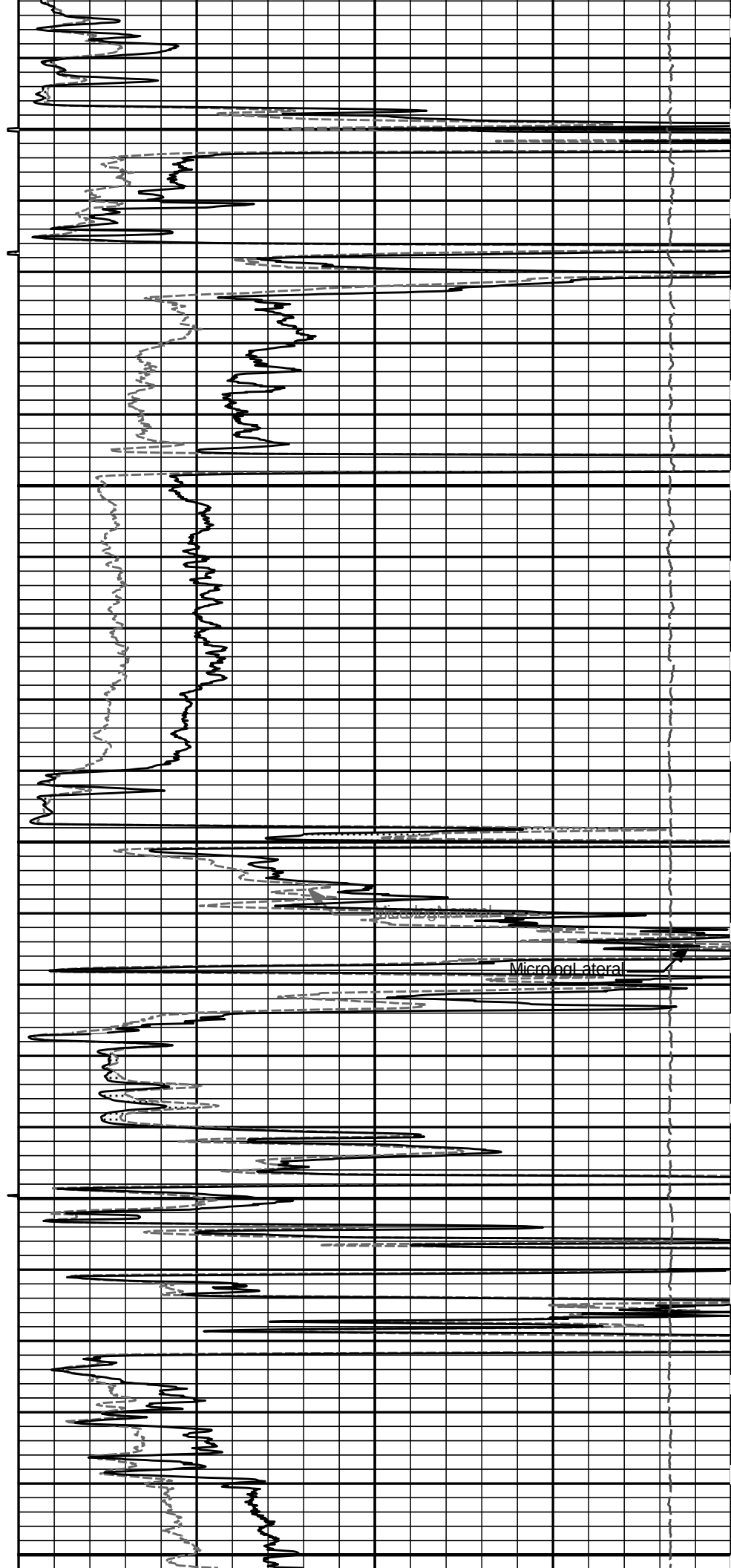
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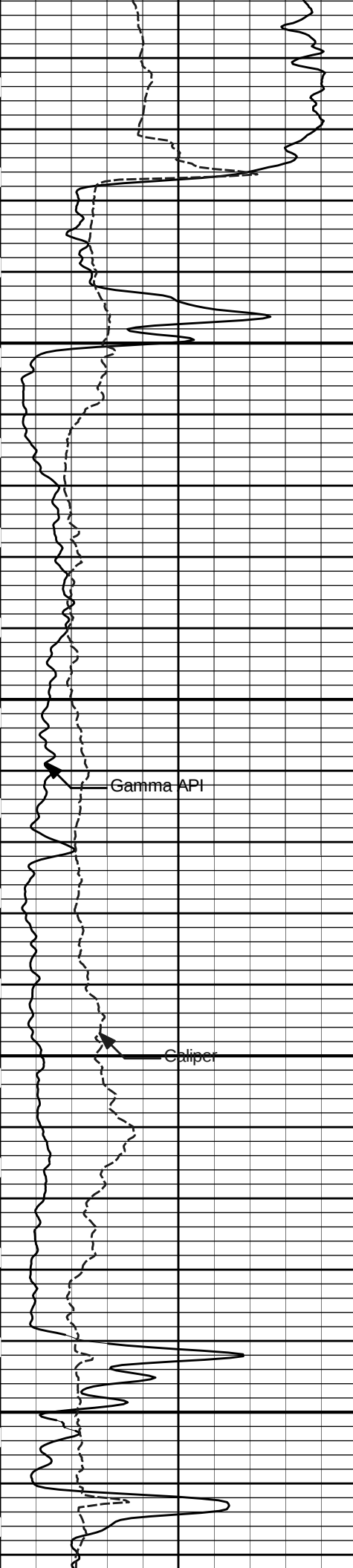


1800

1900





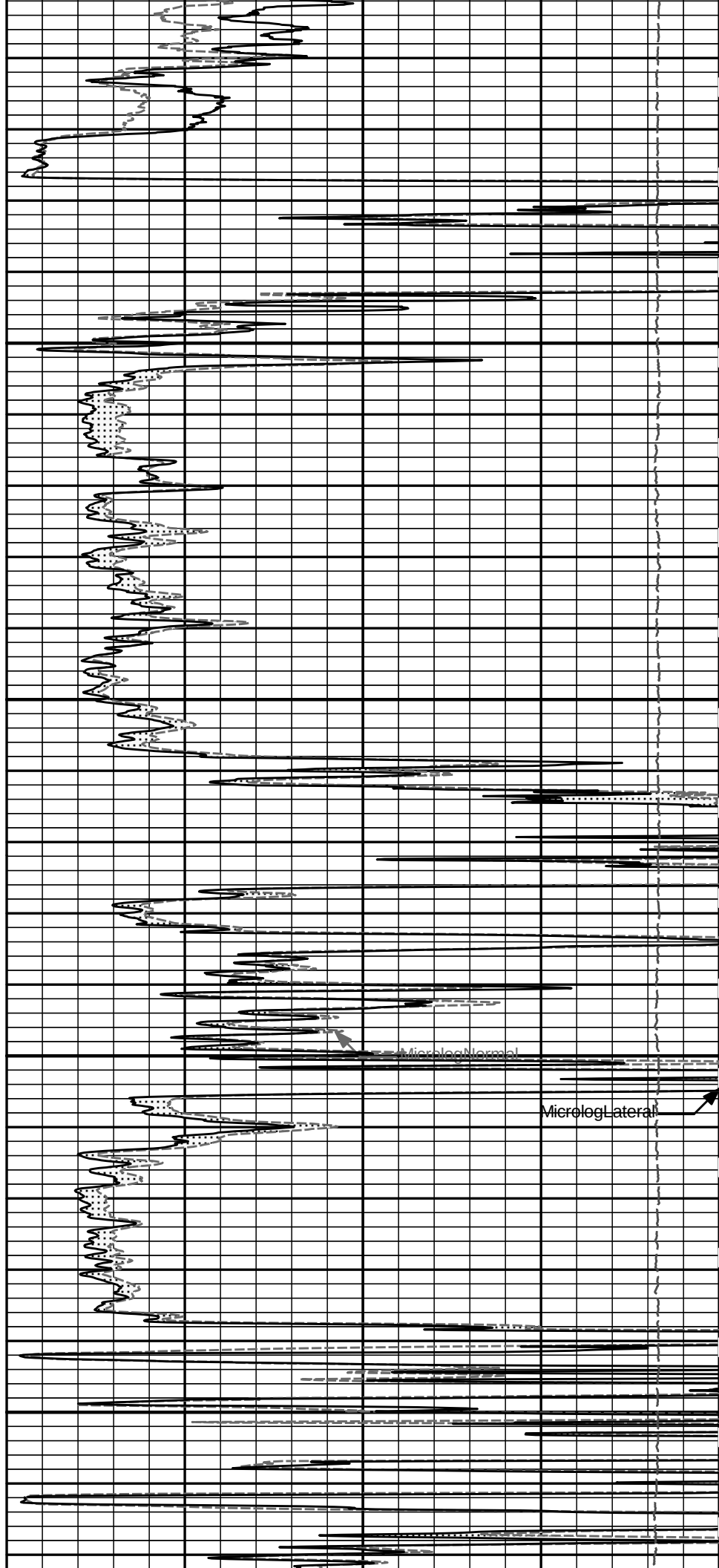


2000

2100

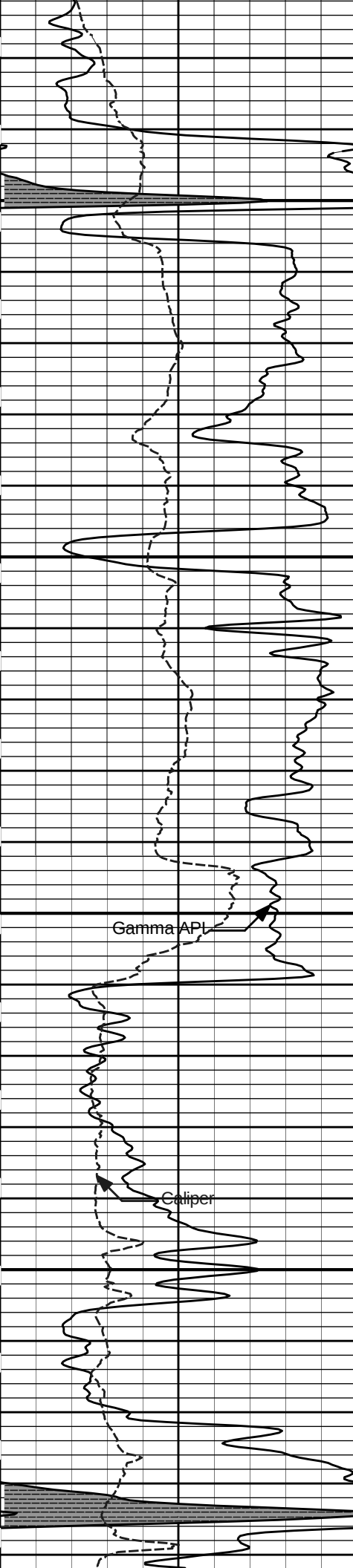
Gamma API

Caliper



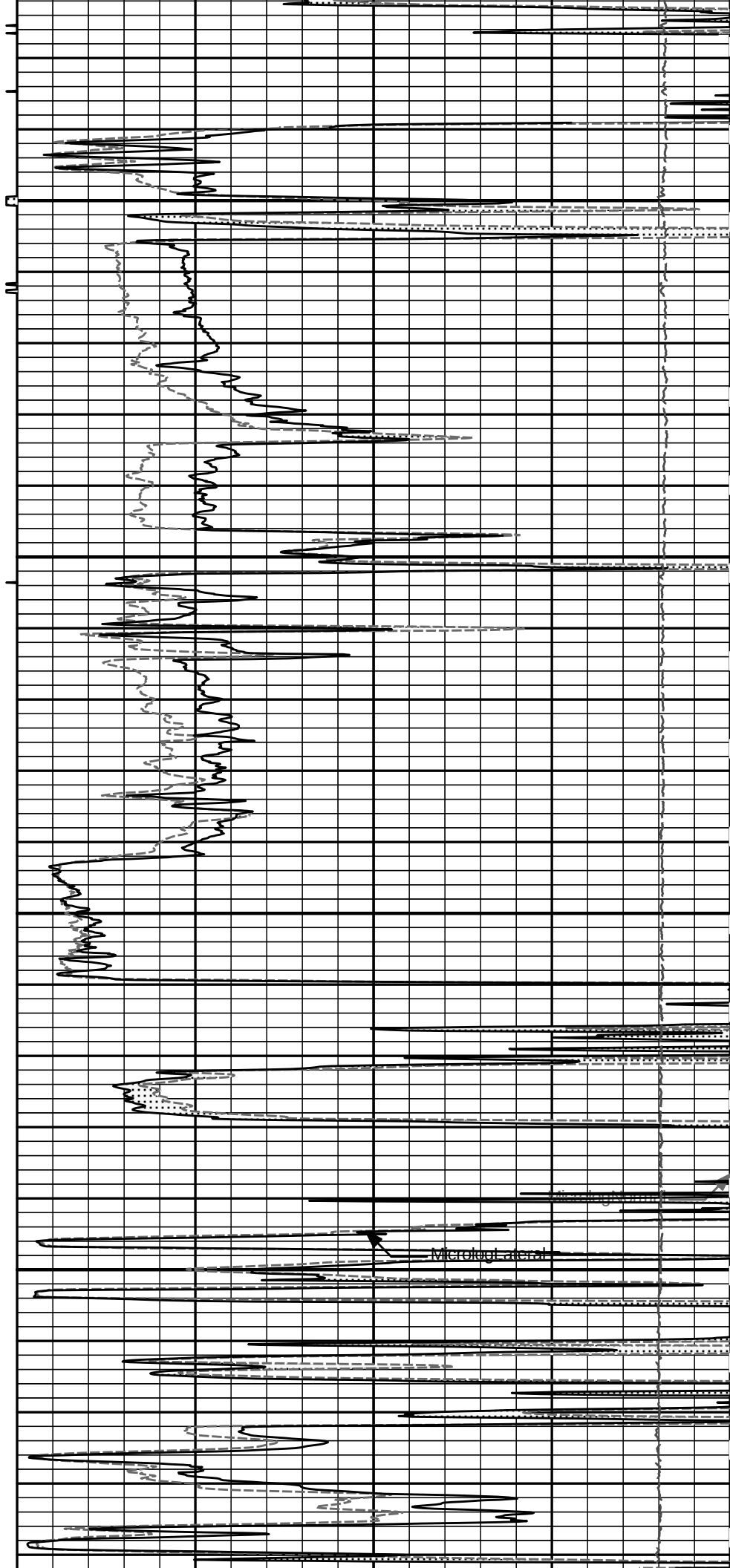
MicrologNormal

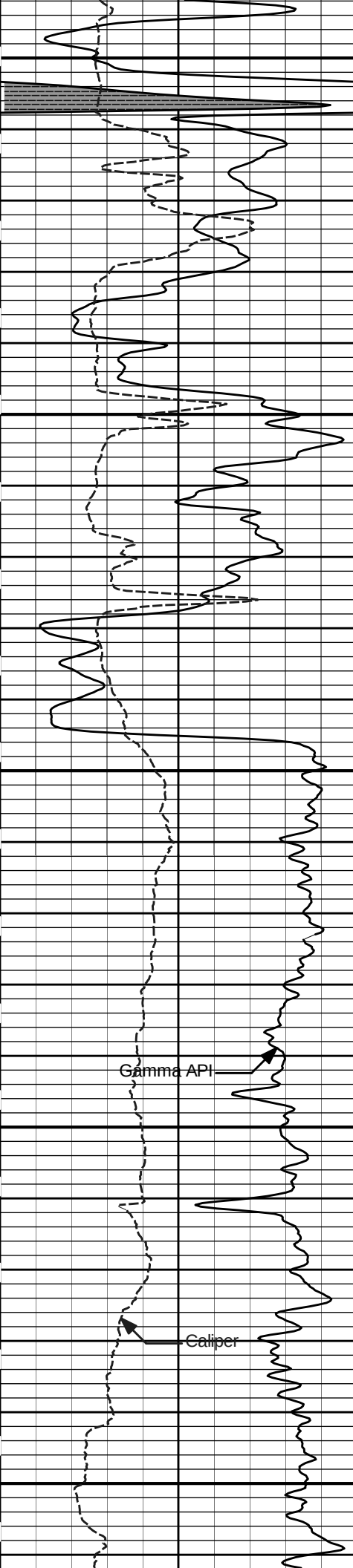
MicrologLateral



2200

2300

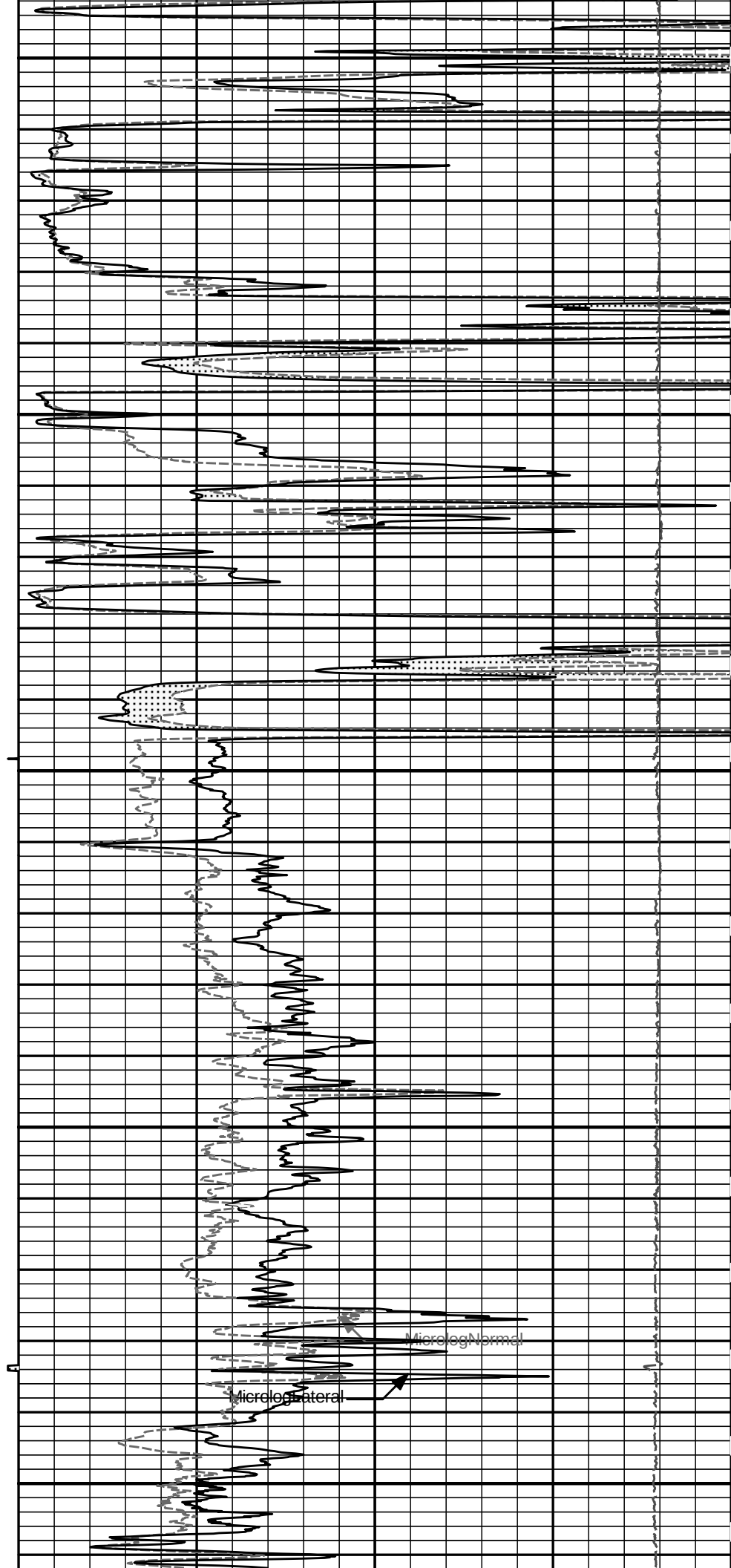


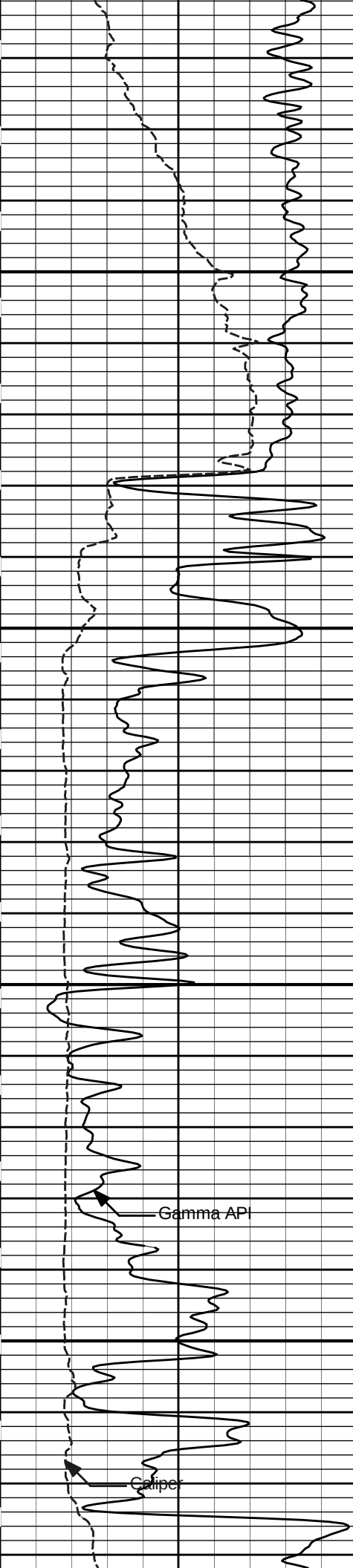


2400

2500

2600





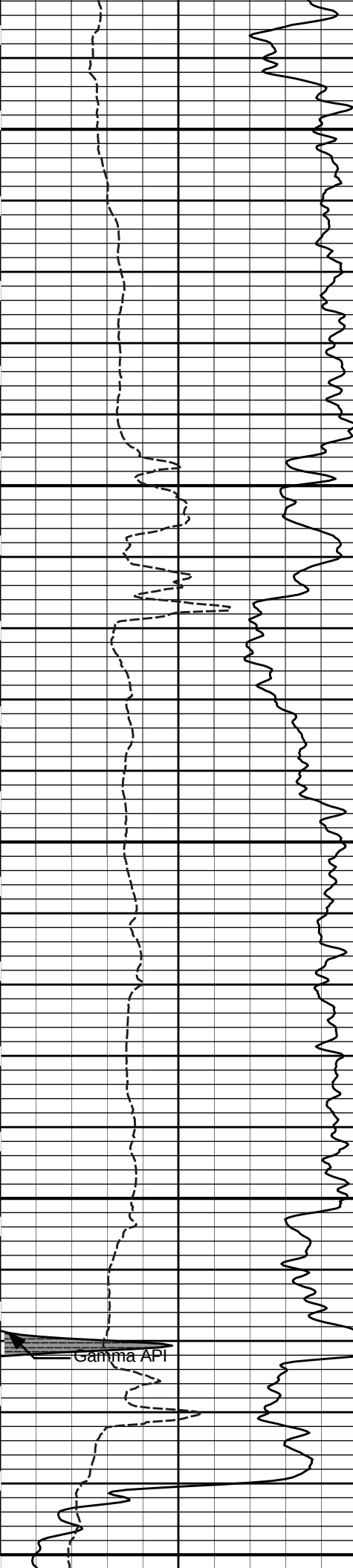
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2800



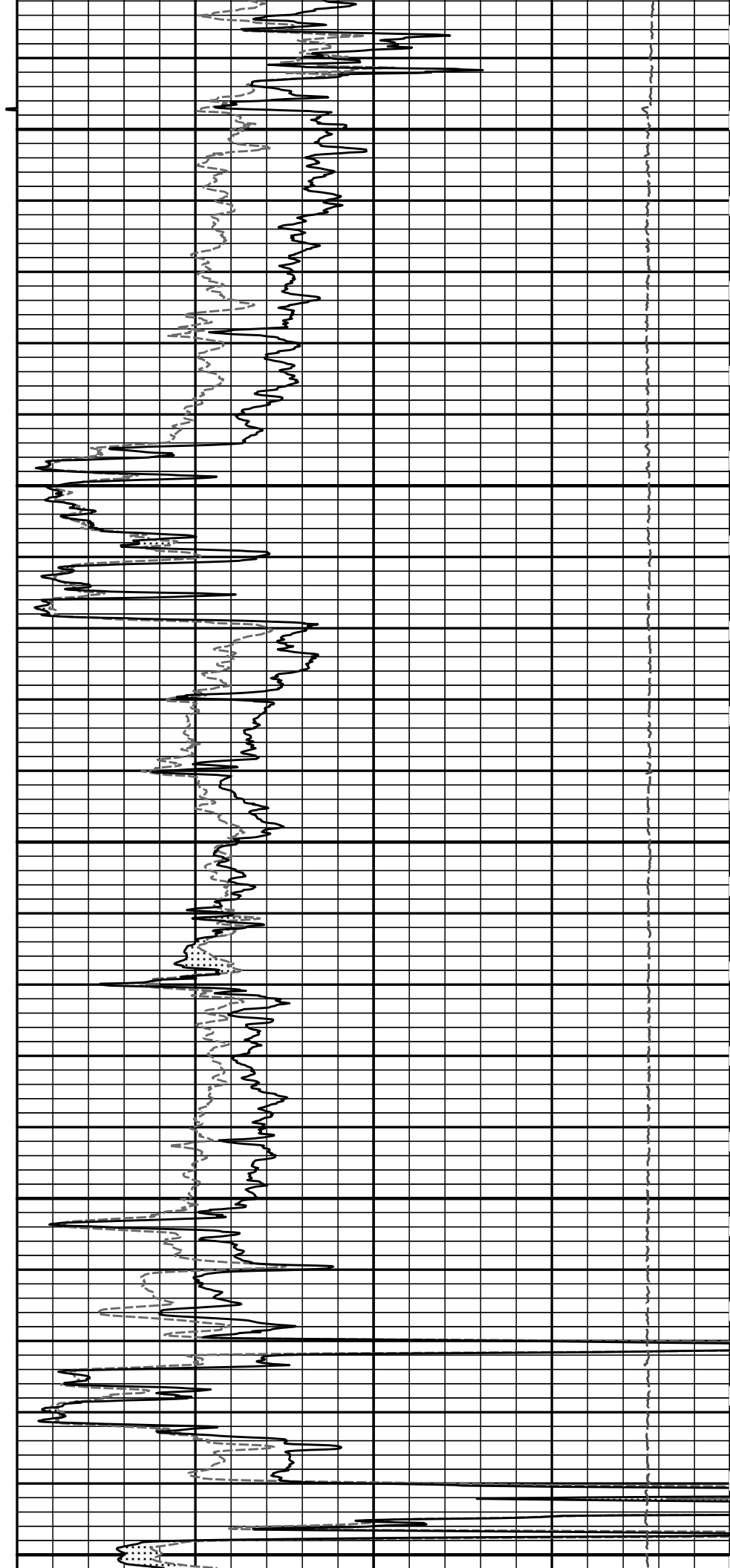
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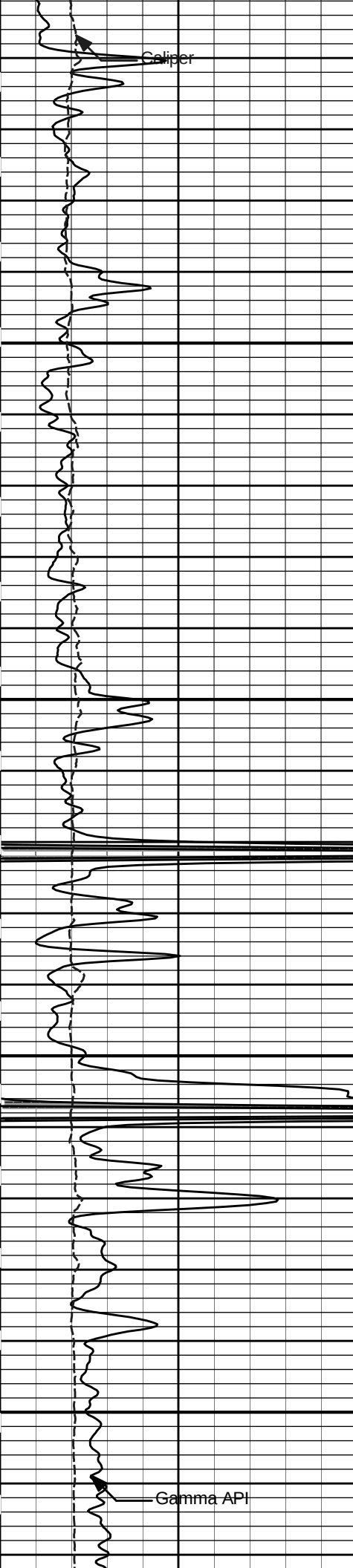
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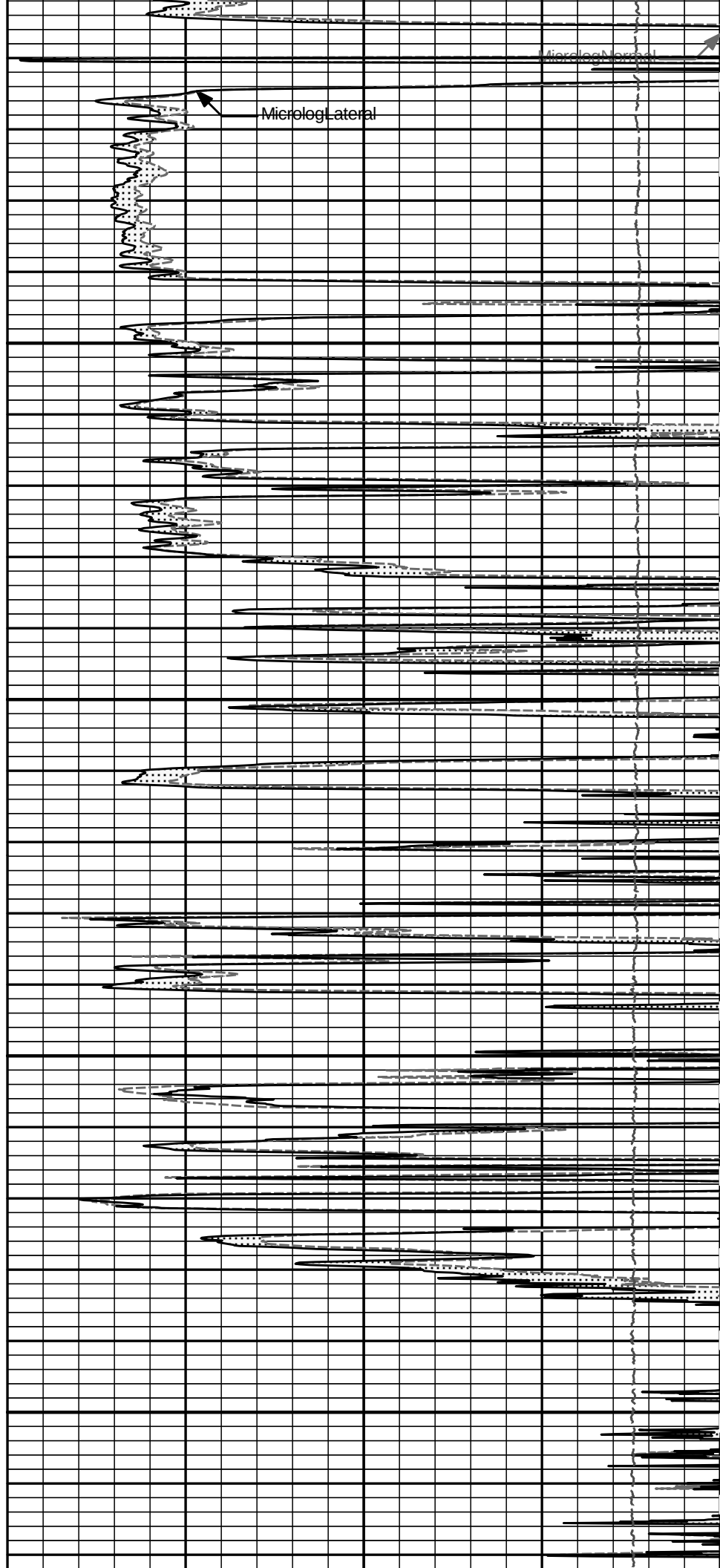
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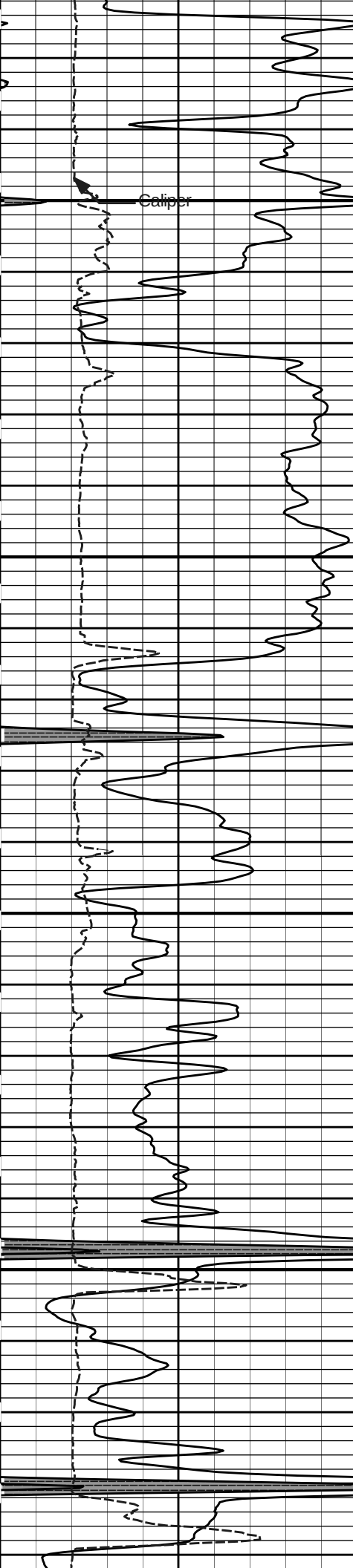




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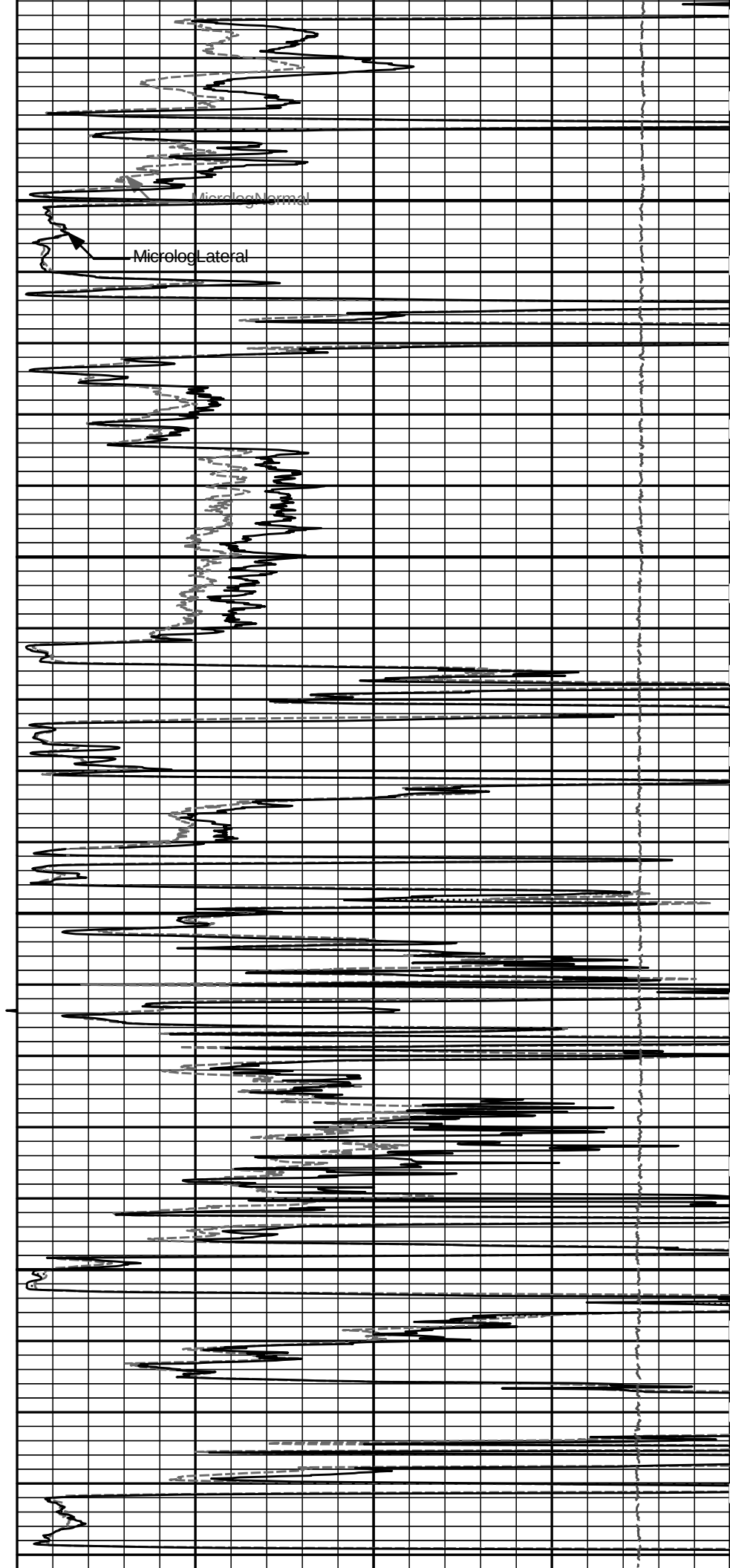
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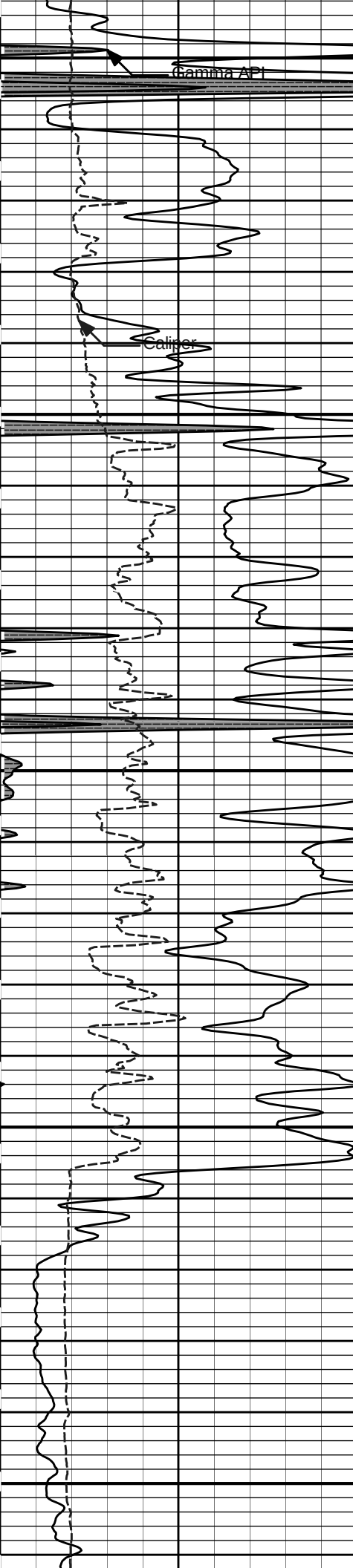
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3400



MicrologNormal

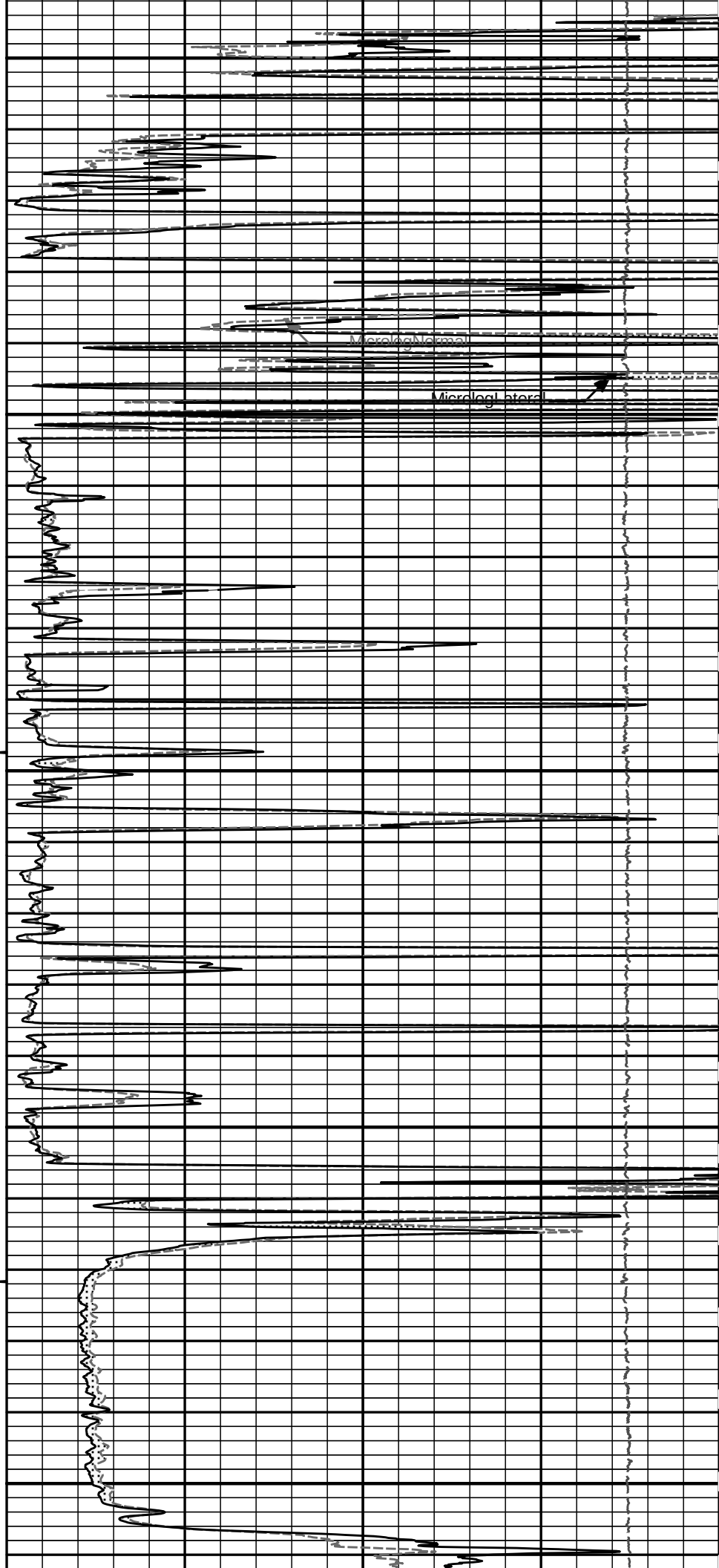
MicrologLateral



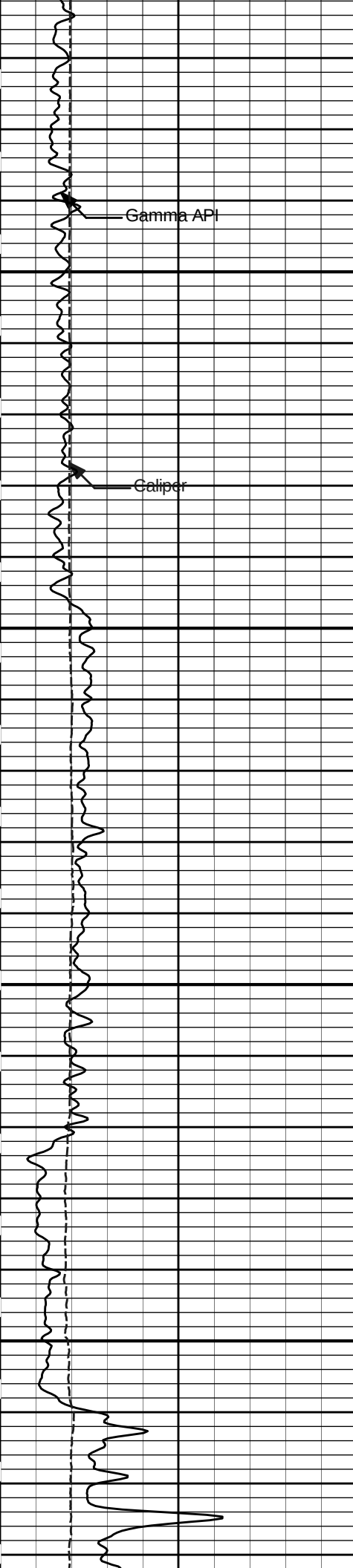
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3600

3700

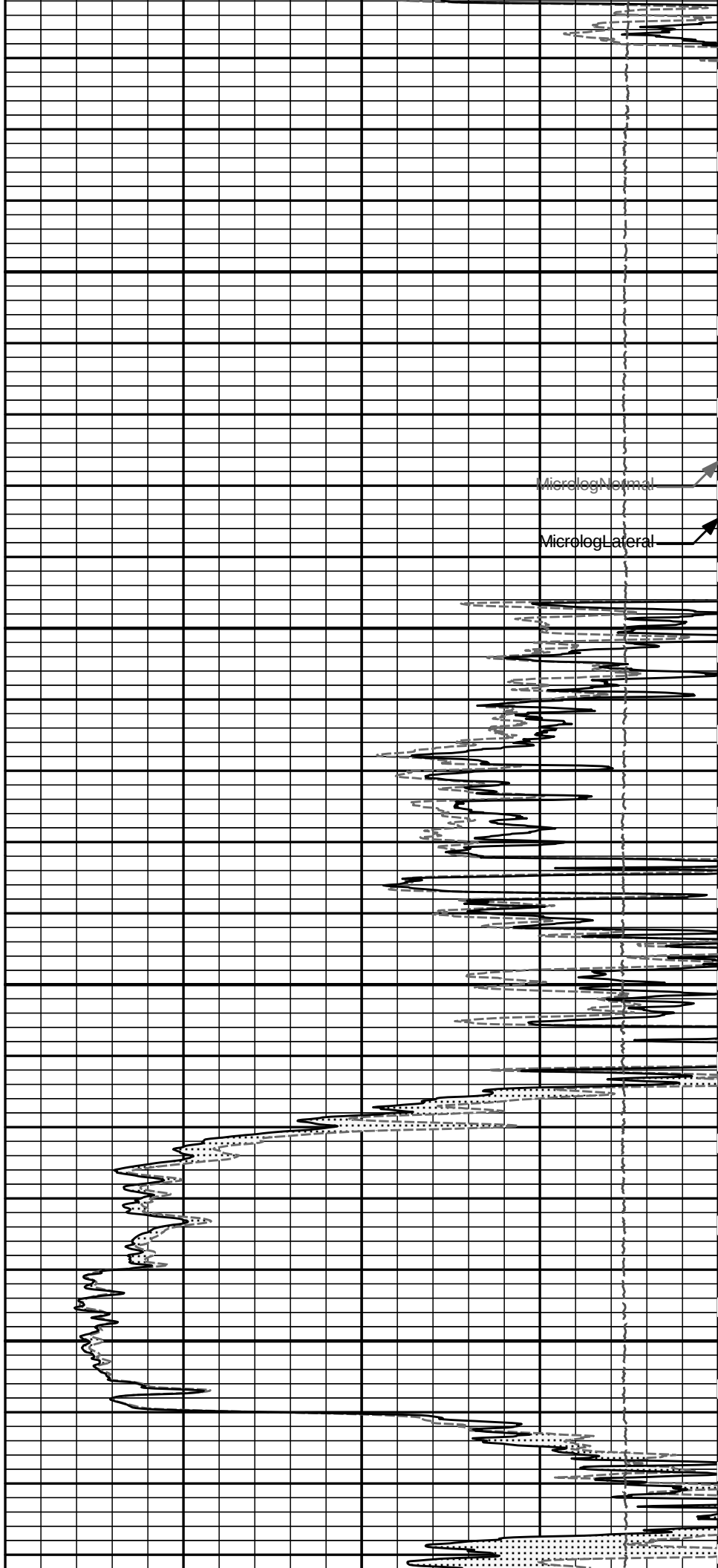


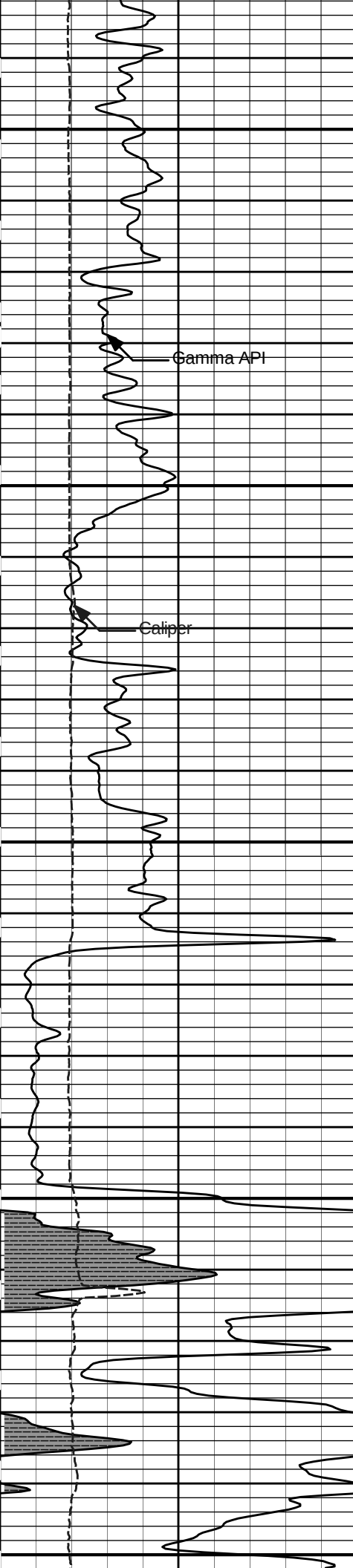




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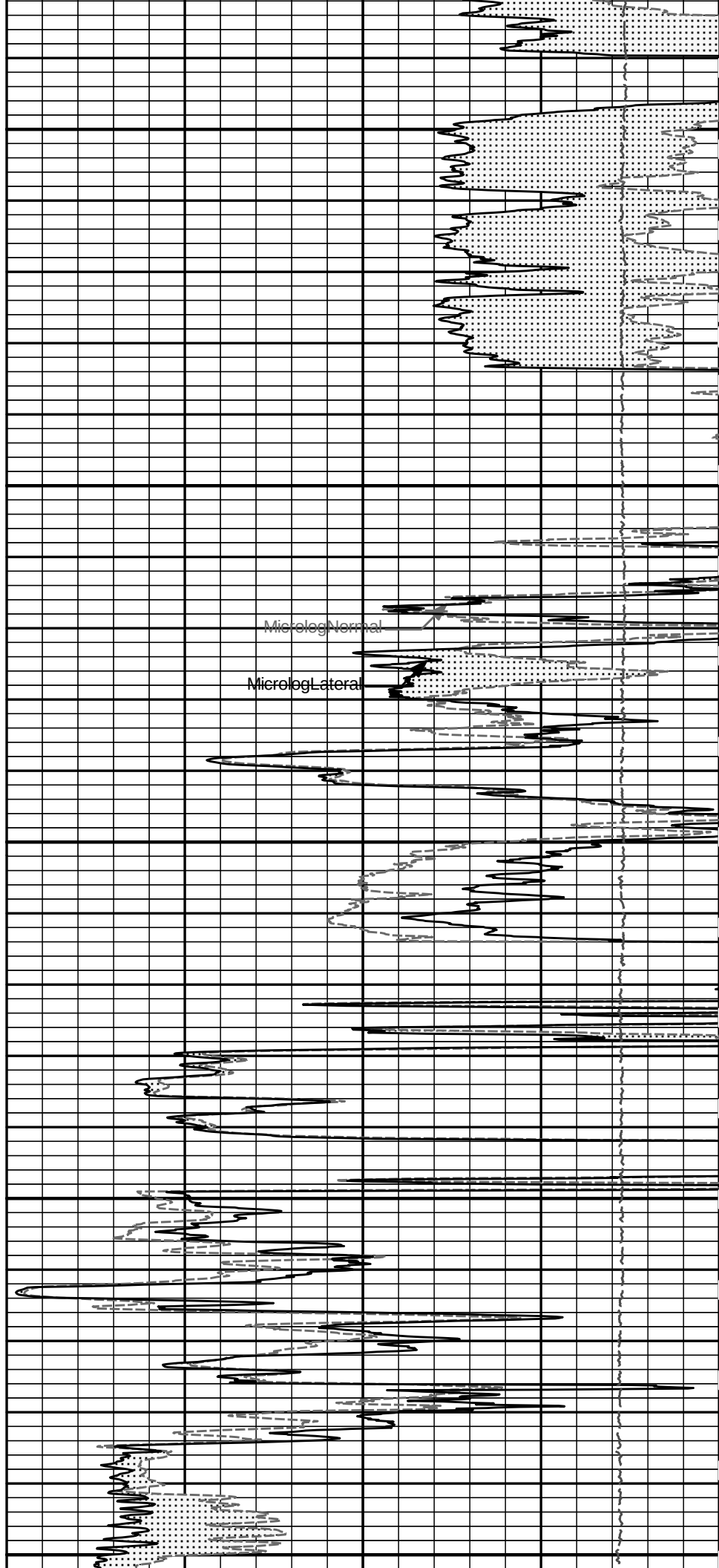
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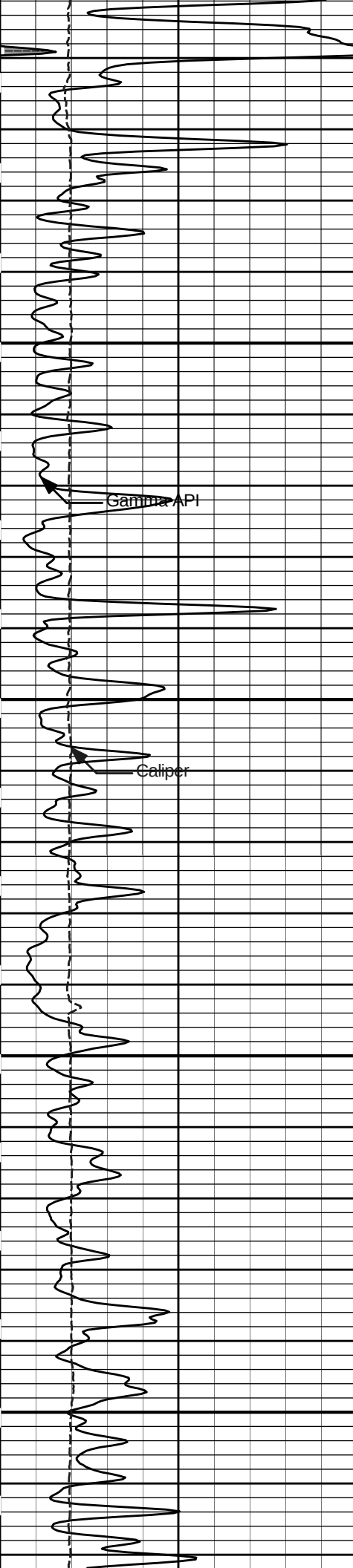




4000

4100



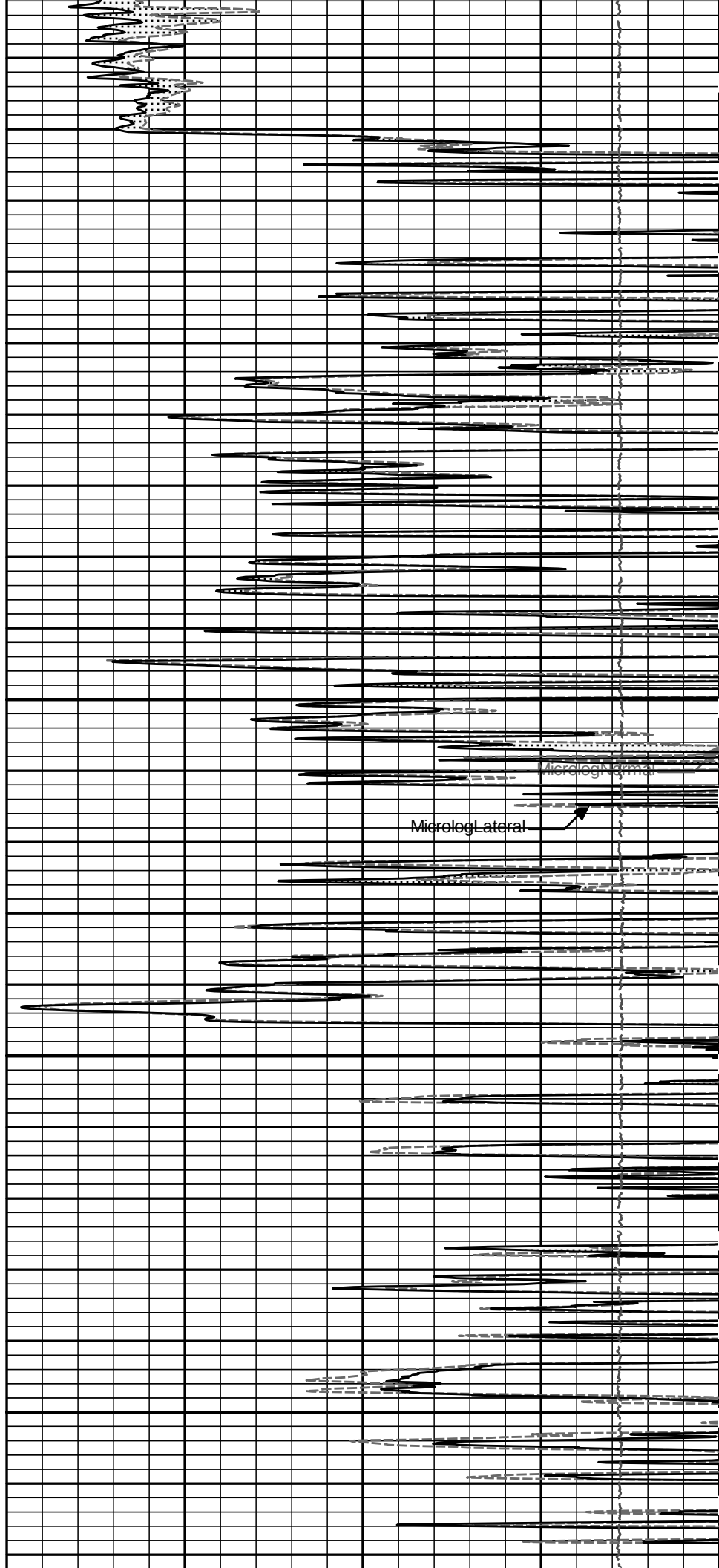


4200

Gamma API

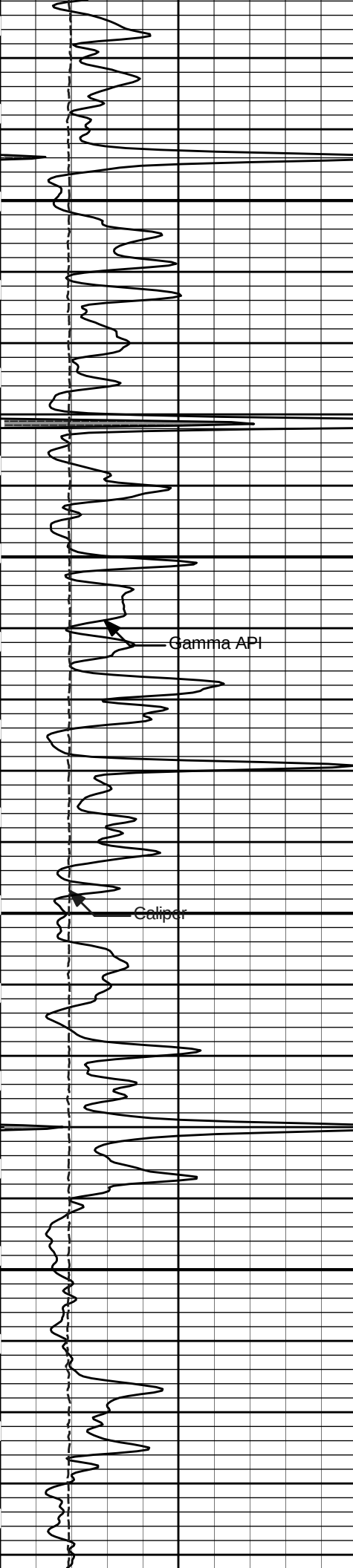
Caliper

4300



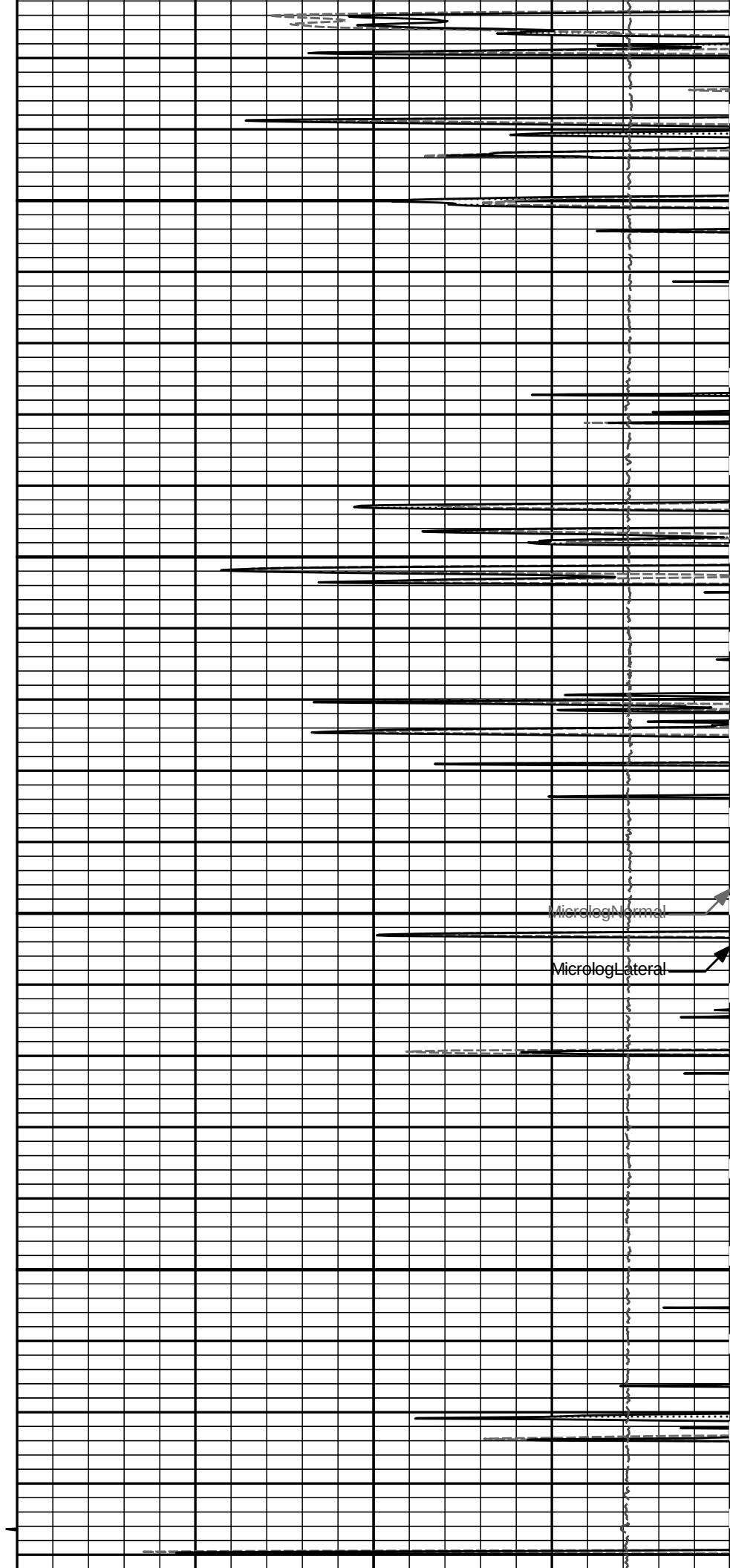
MicrologNormal

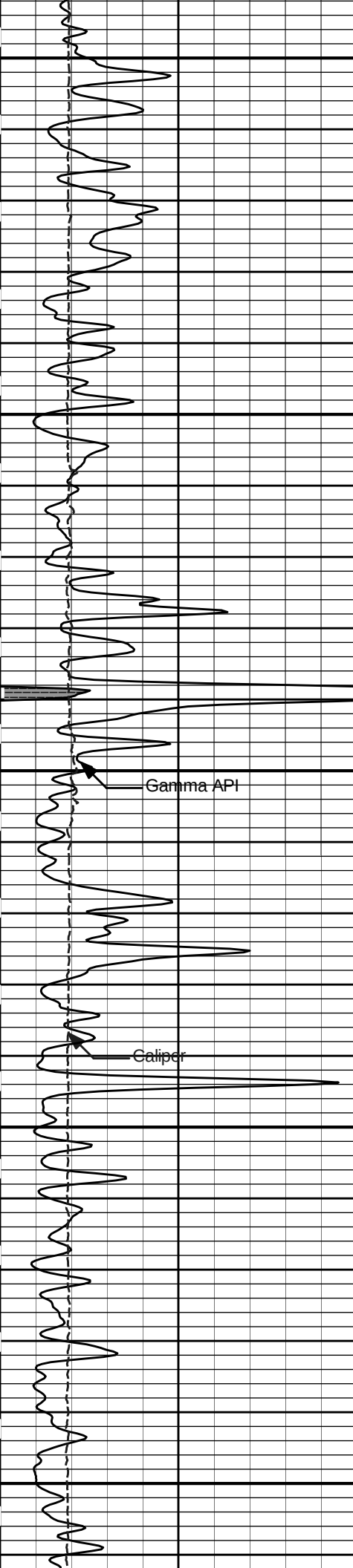
MicrologLateral



4400

4500





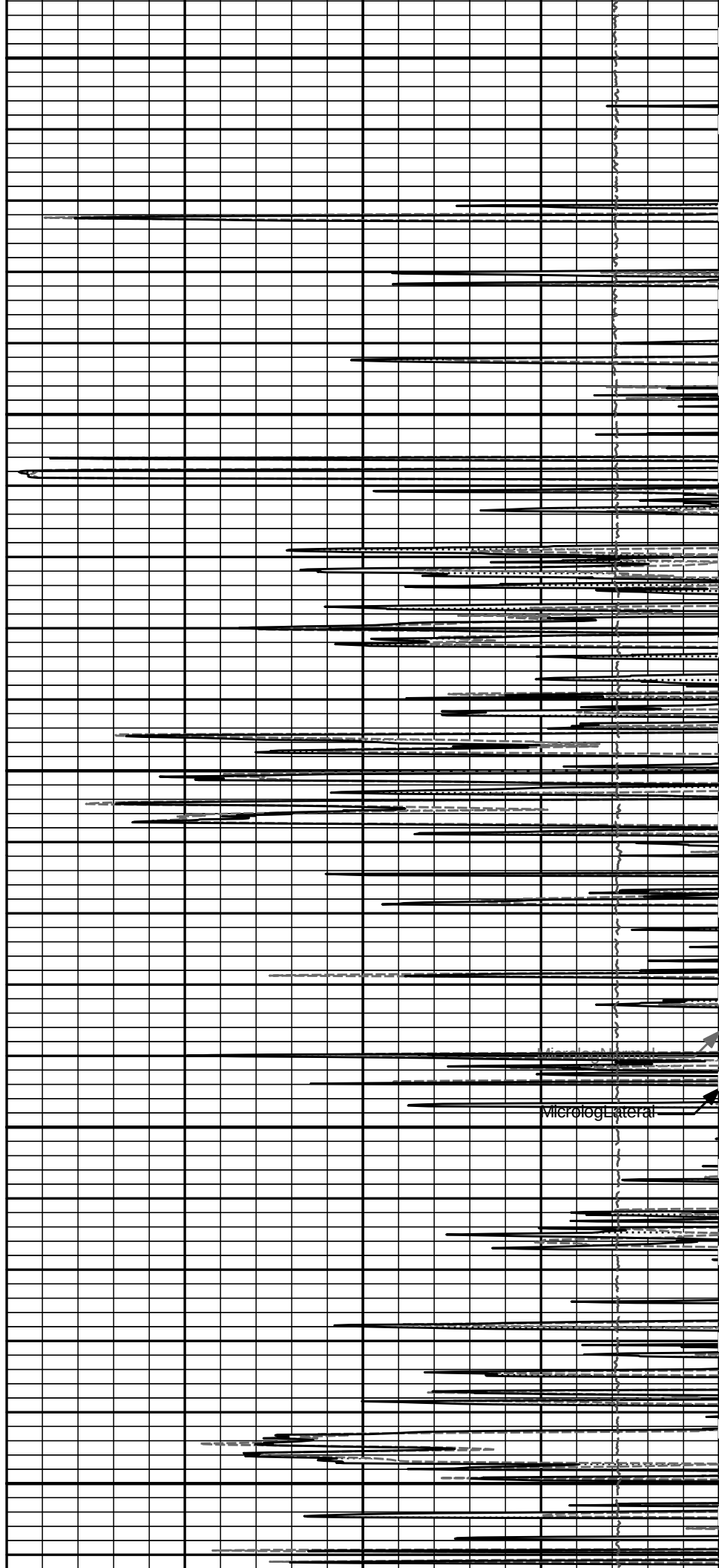
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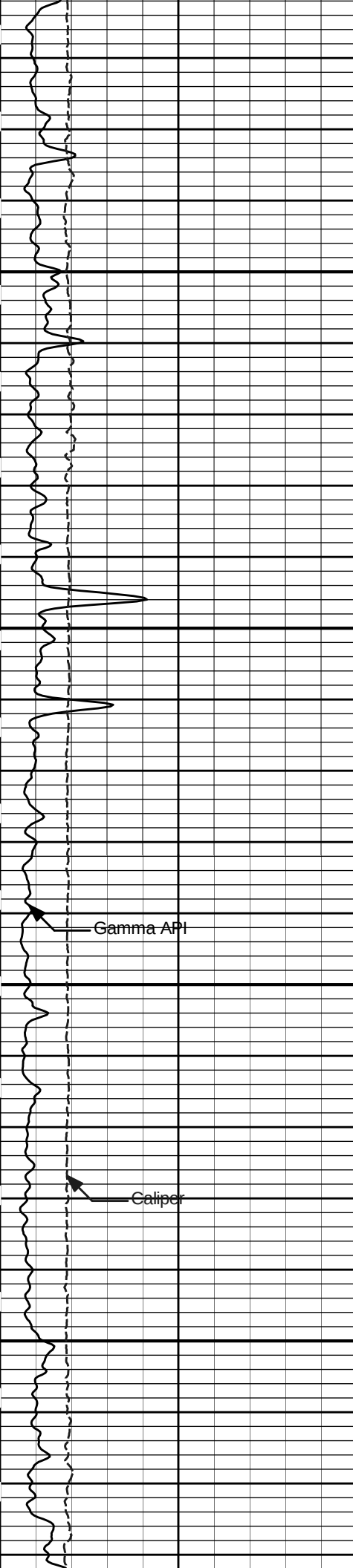
Gamma API

Caliper



Microlog

Microlog

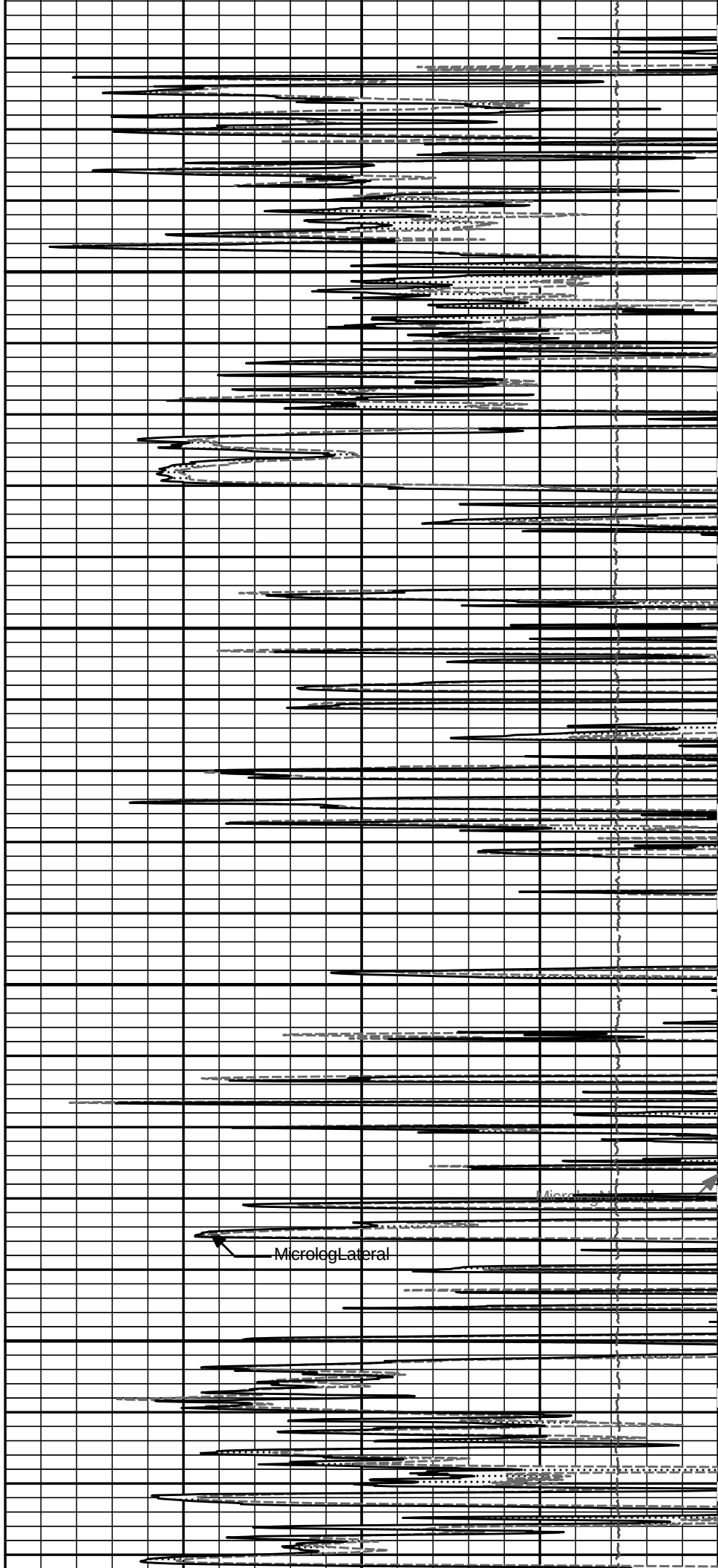


4900

Gamma API

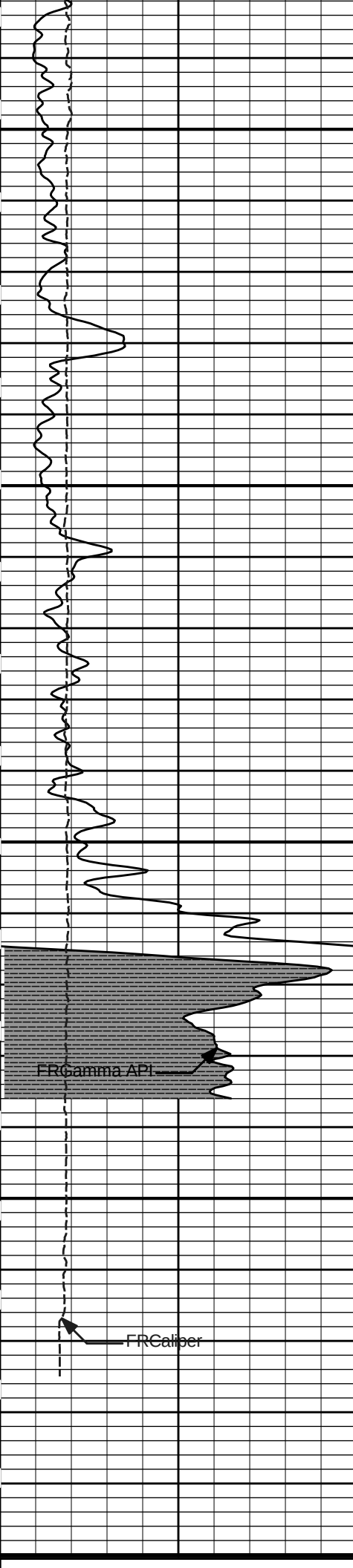
Caliper

5000



Microlog Lateral

Microlog Vertical

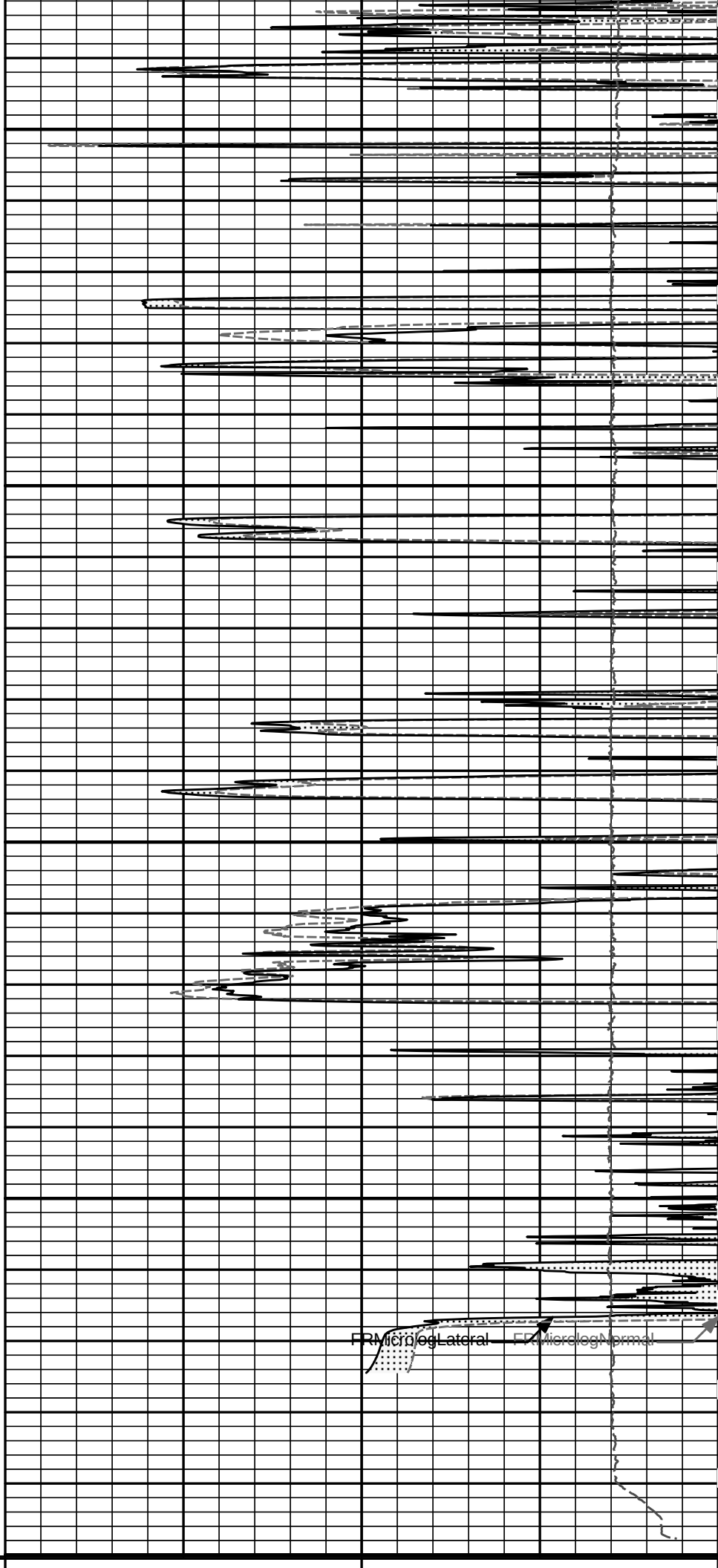


5100

5200

FRGamma API

FRCaliper



FRMicrologLateral

FRMicrologNormal

|   |           |     |              |     |                 |    |
|---|-----------|-----|--------------|-----|-----------------|----|
| 6 | Caliper   | 16  | 1 : 240      | 15K | Tension         | 0  |
|   | inches    |     | ft           |     | pounds          |    |
| 0 | Gamma API | 150 | Tension Pull | 0   | MicrologLateral | 20 |
|   | api       |     | 10 0         |     | ohm-metre       |    |
|   | SHALE     |     | Tension Pull | 0   | MicrologNormal  | 20 |
|   |           |     |              |     | ohm-metre       |    |
|   |           |     |              |     | PERMEABLE       |    |

HALLIBURTON

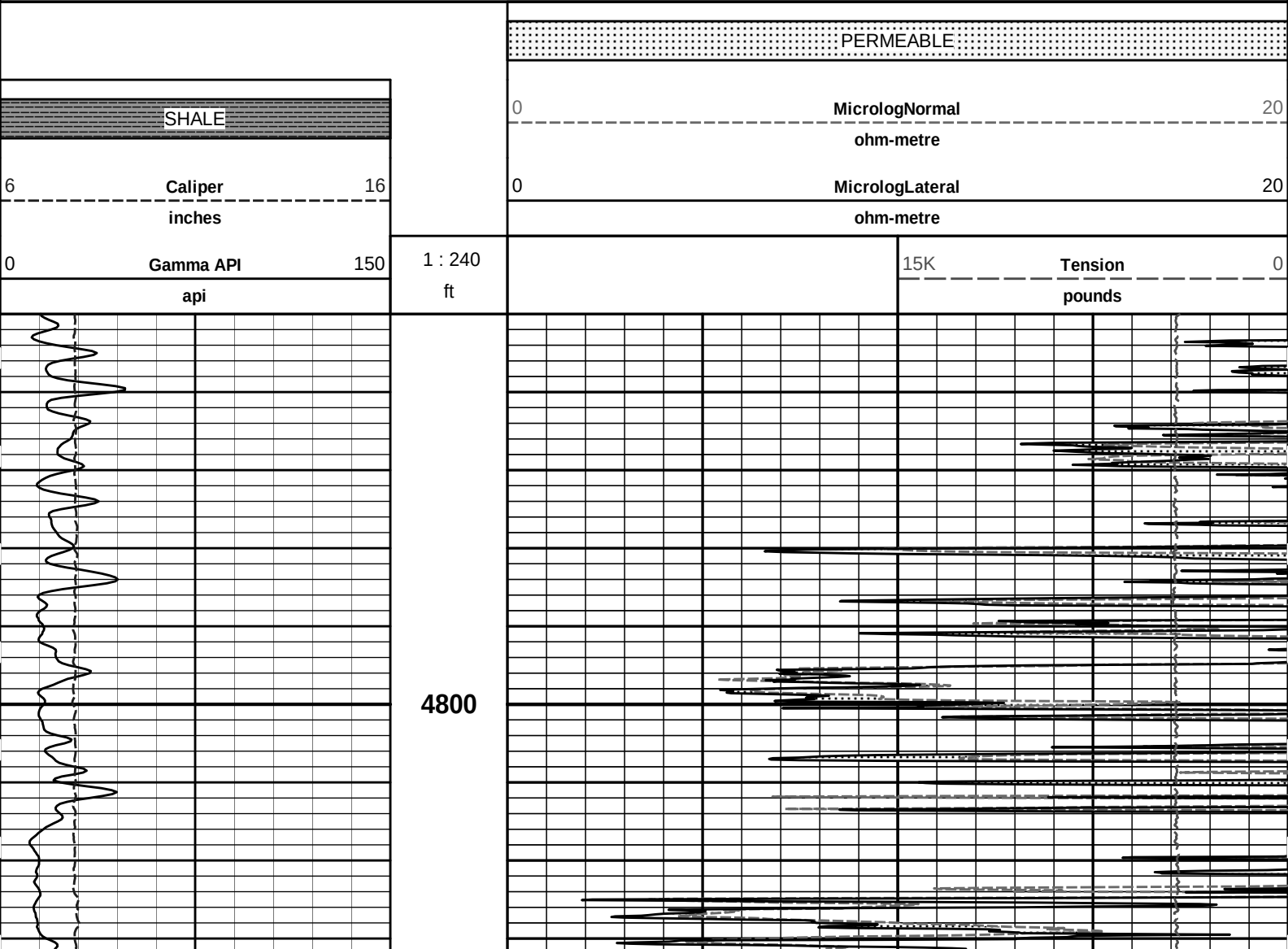
Plot Time: 09-Feb-11 17:09:06  
Plot Range: 580 ft to 5250.25 ft  
Data: WELINGTN\_KGS\_R2\Well Based\DAQ-0001-002\  
Plot File: \\-LOCAL-\\WELLINGTON\_KGS\0001 SP-GTET-DSN-SDL-ACRT-CH\MICRO\Microlog\_IQ\_5\_main\_lib

5 INCH MAIN LOG

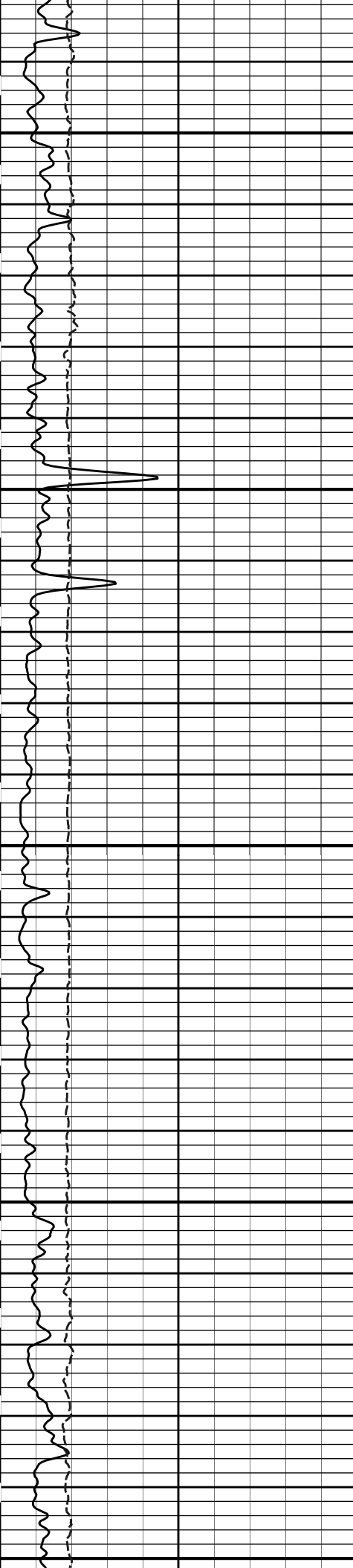
HALLIBURTON

Plot Time: 09-Feb-11 17:09:07  
Plot Range: 4750 ft to 5250.17 ft  
Data: WELINGTN\_KGS\_R2\Well Based\DAQ-0001-001\  
Plot File: \\-LOCAL-\\WELLINGTON\_KGS\0001 SP-GTET-DSN-SDL-ACRT-CH\MICRO\Microlog\_IQ\_5\_rep\_lib

REPEAT SECTION

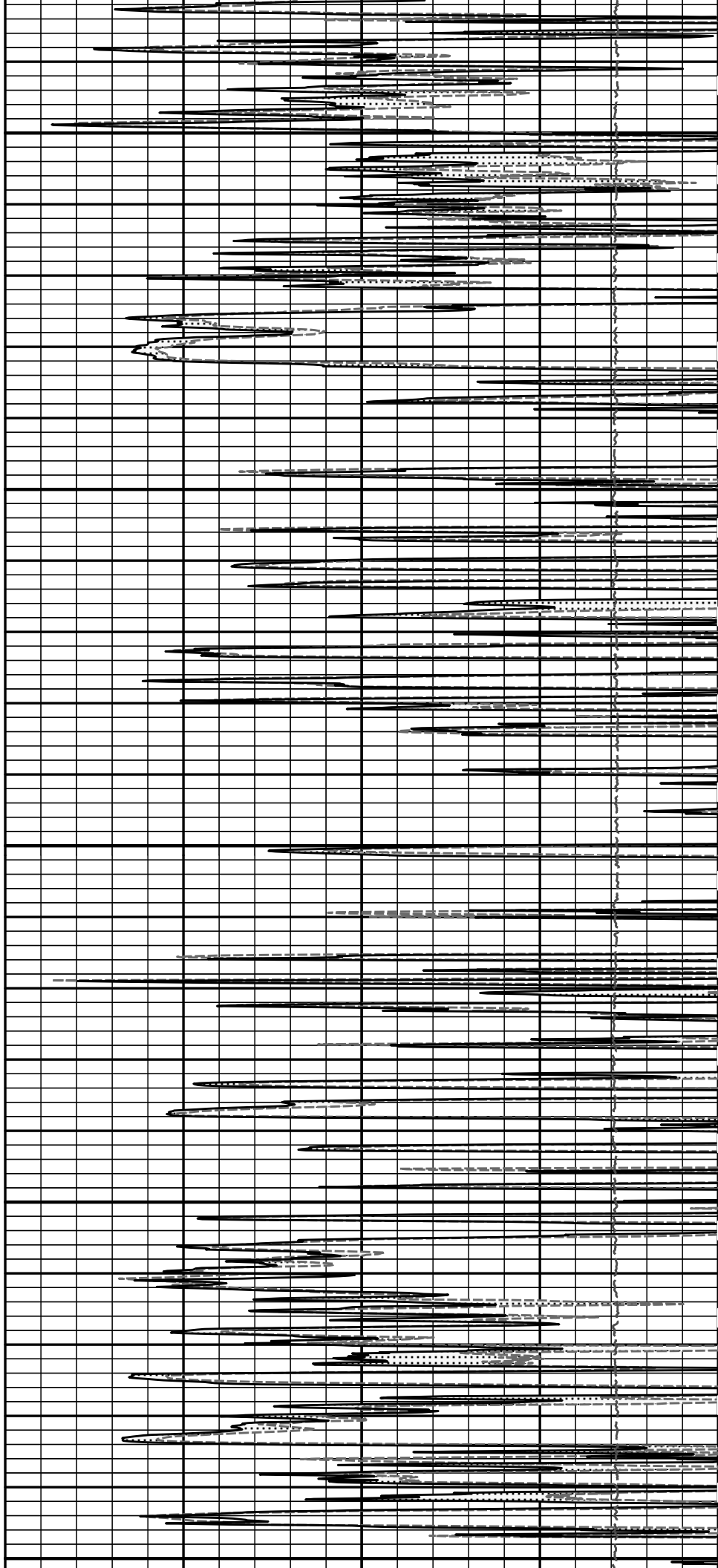


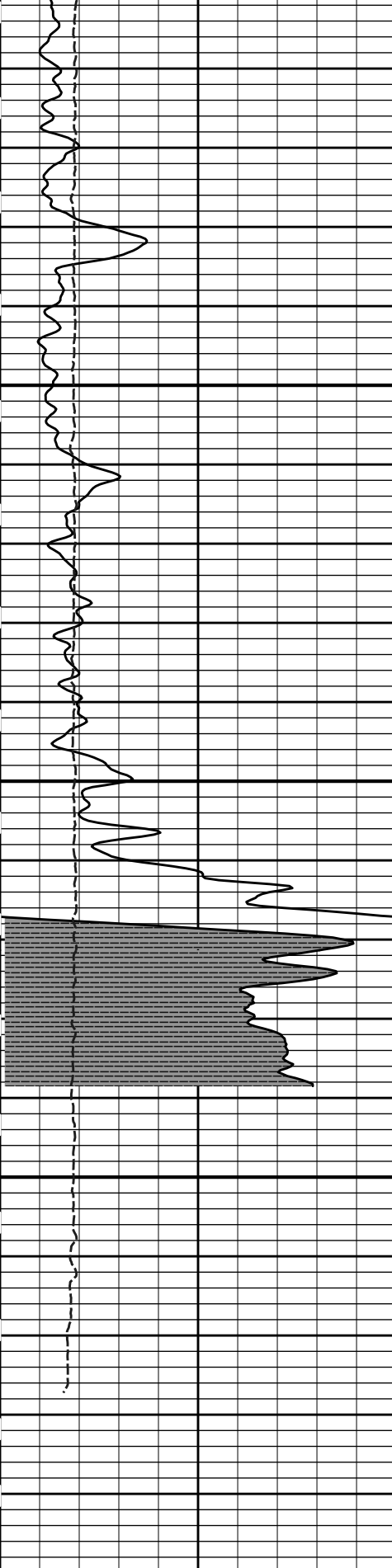




4900

5000



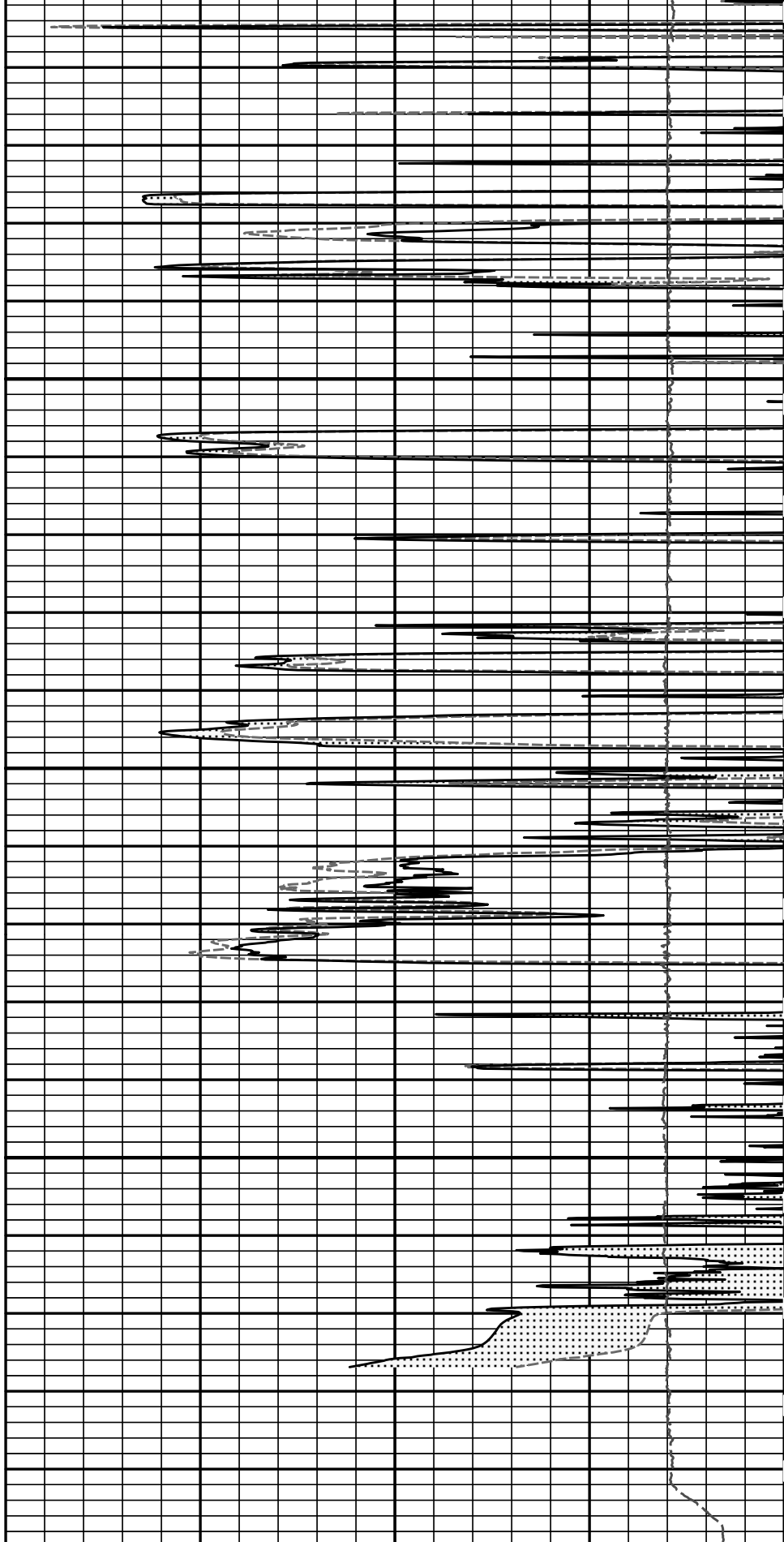


5100

5200

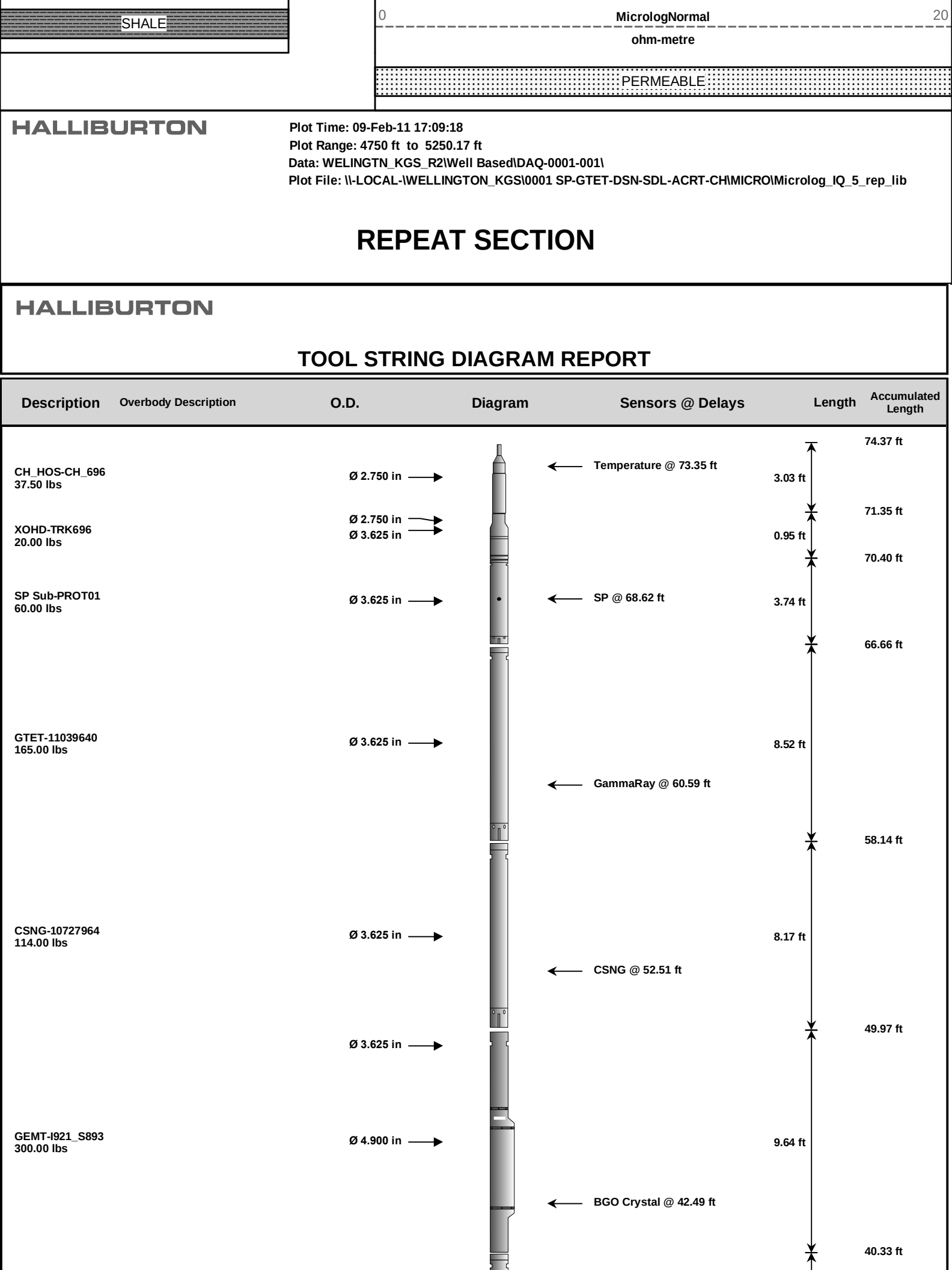
|   |           |     |
|---|-----------|-----|
| 0 | Gamma API | 150 |
|   | api       |     |
| 6 | Caliper   | 16  |
|   | inches    |     |

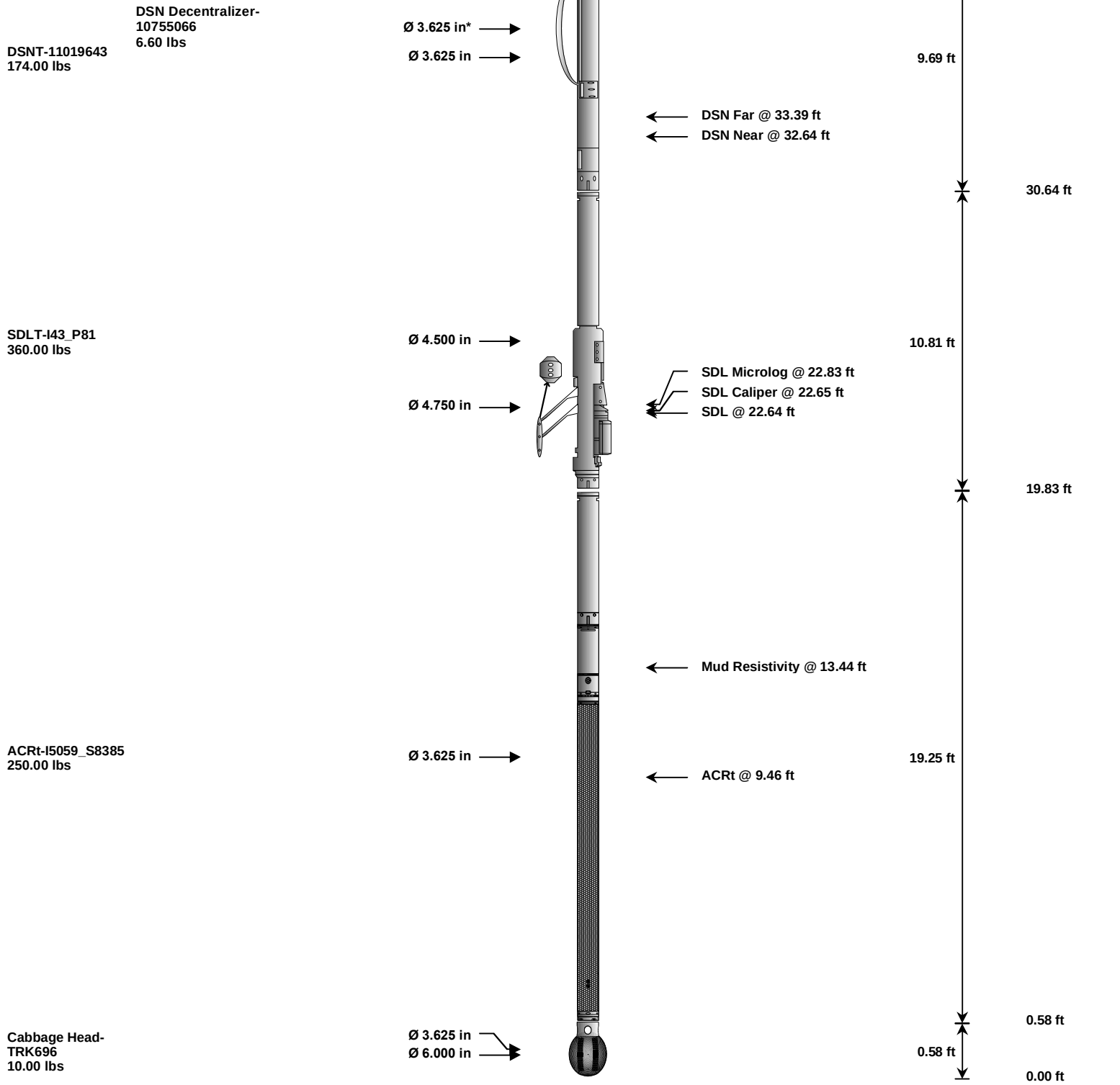
|         |
|---------|
| 1 : 240 |
| ft      |



|   |                 |    |
|---|-----------------|----|
| 0 | MicrologLateral | 20 |
|   | ohm-metre       |    |

|     |         |   |
|-----|---------|---|
| 15K | Tension | 0 |
|     | pounds  |   |





| Mnemonic     |     | Tool Name                          | Serial Number | Weight (lbs)    | Length (ft)  | Accumulated Length (ft) | Max.Log. Speed (fpm) |
|--------------|-----|------------------------------------|---------------|-----------------|--------------|-------------------------|----------------------|
| CH           | HOS | Hostile Cable Head with Load Cell  | CH 696        | 37.50           | 3.03         | 71.35                   | 300.00               |
| XOHD         |     | Hostile to Dits Cross Over         | TRK696        | 20.00           | 0.95         | 70.40                   | 300.00               |
| SP           |     | SP Sub                             | PROT01        | 60.00           | 3.74         | 66.66                   | 300.00               |
| GTET         |     | Gamma Telemetry Tool               | 11039640      | 165.00          | 8.52         | 58.14                   | 60.00                |
| CSNG         |     | Compensated Spectral Natural Gamma | 10727964      | 114.00          | 8.17         | 49.97                   | 15.00                |
| GEMT         |     | Gamma, Elements and Minerals Tool  | I921_S893     | 300.00          | 9.64         | 40.33                   | 15.00                |
| DSNT         |     | Dual Spaced Neutron                | 11019643      | 174.00          | 9.69         | 30.64                   | 60.00                |
| DCNT         |     | DSN Decentralizer                  | 10755066      | 6.60            | 5.13         | * 33.97                 | 300.00               |
| SDLT         |     | Spectral Density Tool              | I43_P81       | 360.00          | 10.81        | 19.83                   | 60.00                |
| ACRt         |     | Array Compensated True Resistivity | I5059_S8385   | 250.00          | 19.25        | 0.58                    | 300.00               |
| CBHD         |     | Cabbage Head                       | TRK696        | 10.00           | 0.58         | 0.00                    | 300.00               |
| <b>Total</b> |     |                                    |               | <b>1,497.10</b> | <b>74.37</b> |                         |                      |

\* Not included in Total Length and Length Accumulation.

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CALIBRATION REPORT

MICRO LOG SHOP CALIBRATION

Tool Name: SDLT - I43\_P81

Reference Calibration Date: 01-Jan-70 00:00:00

Engineer: C. HAVERKAMP

Calibration Date: 14-Jan-11 07:22:52

Software Version: WL INSITE R3.2.0 (Build 7)

Calibration Version: 1

| CALIBRATION COEFFICIENT SUMMARY |                                |            |                                 |            |       |
|---------------------------------|--------------------------------|------------|---------------------------------|------------|-------|
| Measurement                     | Micro Log Normal               |            | Micro Log Lateral               |            | Units |
|                                 | Measured                       | Calibrated | Measured                        | Calibrated |       |
| Tool Zero                       | -0.06                          | -0.06      | -0.10                           | -0.10      | ohmm  |
| Calibration Point #1            | 0.00                           | 0.00       | 0.00                            | 0.00       | ohmm  |
| Calibration Point #2            | 20.00                          | 20.00      | 20.00                           | 20.00      | ohmm  |
| Internal Reference              | 19.93                          | 19.93      | 21.70                           | 21.70      | ohmm  |
|                                 |                                |            |                                 |            |       |
| Measurement                     | Micro Log Normal<br>Tool Value |            | Micro Log Lateral<br>Tool Value |            | Units |
| Tool Zero                       | -0.03                          |            | 0.30                            |            | V     |
| Calibration Point #1            | 16.88                          |            | 31.04                           |            | V     |
| Calibration Point #2            | 5340.48                        |            | 6332.48                         |            | V     |
| Internal Reference              | 5321.42                        |            | 6868.75                         |            | V     |

MICRO LOG FIELD CHECK

Tool Name: SDLT - I43\_P81

Reference Calibration Date: 14-Jan-11 07:22:52

Engineer: J. BOSH

Calibration Date: 07-Feb-11 22:55:39

Software Version: WL INSITE R3.2.0 (Build 7)

Calibration Version: 1

| Measurement        | Micro Log Normal |       | Micro Log Lateral |       | Units |
|--------------------|------------------|-------|-------------------|-------|-------|
|                    | Shop             | Field | Shop              | Field |       |
| Tool Zero          | -0.06            | -0.06 | -0.10             | -0.10 | ohmm  |
| Internal Reference | 19.93            | 19.91 | 21.70             | 21.68 | ohmm  |

| Summary          |       |       |            |           |
|------------------|-------|-------|------------|-----------|
| Signal           | Shop  | Field | Difference | Tolerance |
| Microlog Normal  | 19.93 | 19.91 | 0.02       | +/- 0.80  |
| Microlog Lateral | 21.70 | 21.68 | 0.02       | +/- 0.80  |

CALIBRATION SUMMARY

| Sensor           | Shop  | Field | Post  | Difference | Tolerance | Units |
|------------------|-------|-------|-------|------------|-----------|-------|
| SDLT-I43_P81     |       |       |       |            |           |       |
| MicroLog Normal  | 19.93 | 19.91 | ----- | 0.02       | +/-0.80   | ohmm  |
| MicroLog Lateral | 21.70 | 21.68 | ----- | 0.02       | +/-0.80   | ohmm  |

HALLIBURTON

PARAMETERS REPORT

| Depth (ft) | Tool Name       | Mnemonic | Description                                           | Value     | Units |
|------------|-----------------|----------|-------------------------------------------------------|-----------|-------|
| TOP        |                 |          |                                                       |           |       |
|            | SHARED          | BS       | Bit Size                                              | 7.875     | in    |
|            | SHARED          | UBS      | Use Bit Size instead of Caliper for all applications. | No        |       |
|            | SHARED          | MDBS     | Mud Base                                              | Water     |       |
|            | SHARED          | MDWT     | Borehole Fluid Weight                                 | 9.000     | ppg   |
|            | SHARED          | WAGT     | Weighting Agent                                       | Barite    |       |
|            | SHARED          | BSAL     | Borehole salinity                                     | 0.00      | ppm   |
|            | SHARED          | FSAL     | Formation Salinity NaCl                               | 0.00      | ppm   |
|            | SHARED          | KPCT     | Percent K in Mud by Weight?                           | 0.00      | %     |
|            | SHARED          | RMUD     | Mud Resistivity                                       | 0.650     | ohmm  |
|            | SHARED          | TRM      | Temperature of Mud                                    | 75.0      | degF  |
|            | SHARED          | CSD      | Logging Interval is Cased?                            | No        |       |
|            | SHARED          | ICOD     | AHV Casing OD                                         | 5.500     | in    |
|            | SHARED          | ST       | Surface Temperature                                   | 75.0      | degF  |
|            | SHARED          | TD       | Total Well Depth                                      | 5242.00   | ft    |
|            | SHARED          | BHT      | Bottom Hole Temperature                               | 120.0     | degF  |
|            | SHARED          | SVTM     | Navigation and Survey Master Tool                     | NONE      |       |
|            | SHARED          | AZTM     | High Res Z Accelerometer Master Tool                  | GTET      |       |
|            | SHARED          | TEMM     | Temperature Master Tool                               | NONE      |       |
|            | SHARED          | BHSM     | Borehole Size Master Tool                             | NONE      |       |
|            | Rwa / CrossPlot | XPOK     | Process Crossplot?                                    | Yes       |       |
|            | Rwa / CrossPlot | FCHO     | Select Source of F                                    | Automatic |       |
|            | Rwa / CrossPlot | AFAC     | Archie A factor                                       | 0.6200    |       |
|            | Rwa / CrossPlot | MFAC     | Archie M factor                                       | 2.1500    |       |
|            | Rwa / CrossPlot | RMFR     | Rmf Reference                                         | 0.55      | ohmm  |
|            | Rwa / CrossPlot | TMFR     | Rmf Ref Temp                                          | 75.00     | degF  |
|            | Rwa / CrossPlot | RWA      | Resistivity of Formation Water                        | 0.05      | ohmm  |
|            | Rwa / CrossPlot | ADP      | Use Air Porosity to calculate CrossplotPhi            | No        |       |
|            | GTET            | GROK     | Process Gamma Ray?                                    | Yes       |       |
|            | GTET            | GRSO     | Gamma Tool Standoff                                   | 0.000     | in    |
|            | GTET            | GEOK     | Process Gamma Ray EVR?                                | No        |       |
|            | GTET            | TPOS     | Tool Position                                         | Centered  |       |
|            | CSNG            | CGOK     | Process CSNG Data?                                    | Yes       |       |
|            | CSNG            | CENT     | Is Tool Centralized?                                  | No        |       |
|            | CSNG            | GBOK     | Gamma Enviromental Corrections?                       | Yes       |       |
|            | CSNG            | BARF     | Barite Correction Factor                              | 1.00      |       |
|            | GEMT            | GMOK     | Compute GEMT Results?                                 | Yes       |       |
|            | GEMT            | FTAL     | Fit Chemical Element Al                               | Yes       |       |
|            | GEMT            | FTBA     | Fit Chemical Element Ba                               | No        |       |
|            | GEMT            | FITC     | Fit Chemical Element C                                | Yes       |       |
|            | GEMT            | FTCA     | Fit Chemical Element Ca                               | Yes       |       |
|            | GEMT            | FTCL     | Fit Chemical Element Cl                               | Yes       |       |
|            | GEMT            | FTFE     | Fit Chemical Element Fe                               | Yes       |       |
|            | GEMT            | FTGD     | Fit Chemical Element Gd                               | Yes       |       |
|            | GEMT            | FITH     | Fit Chemical Element H                                | Yes       |       |
|            | GEMT            | FTK      | Fit Chemical Element K                                | Yes       |       |
|            | GEMT            | FTMG     | Fit Chemical Element Mg                               | Yes       |       |
|            | GEMT            | FTMN     | Fit Chemical Element Mn                               | Yes       |       |
|            | GEMT            | FTNA     | Fit Chemical Element Na                               | No        |       |

|                                                                 |      |                                                      |                          |      |
|-----------------------------------------------------------------|------|------------------------------------------------------|--------------------------|------|
| GEMT                                                            | FTNA | Fit Chemical Element Na                              | NO                       |      |
| GEMT                                                            | FITO | Fit Chemical Element O                               | Yes                      |      |
| GEMT                                                            | FTS  | Fit Chemical Element S                               | Yes                      |      |
| GEMT                                                            | FTSI | Fit Chemical Element SI                              | Yes                      |      |
| GEMT                                                            | FTTI | Fit Chemical Element Ti                              | Yes                      |      |
| GEMT                                                            | KFIT | Potassium constraint flag (No = don't fit,Yes = fit) | Yes                      |      |
| GEMT                                                            | UFDF | Use Fix Resolution Degradation Factor                | No                       |      |
| DSNT                                                            | DNOK | Process DSN?                                         | Yes                      |      |
| DSNT                                                            | DEOK | Process DSN EVR?                                     | No                       |      |
| DSNT                                                            | NLIT | Neutron Lithology                                    | Limestone                |      |
| DSNT                                                            | DNSO | DSN Standoff - 0.25 in (6.35 mm) Recommended         | 0.300                    | in   |
| DSNT                                                            | DNTP | Temperature Correction Type                          | None                     |      |
| DSNT                                                            | DPRS | DSN Pressure Correction Type                         | None                     |      |
| DSNT                                                            | SHCO | View More Correction Options                         | No                       |      |
| DSNT                                                            | UTVD | Use TVD for Gradient Corrections?                    | No                       |      |
| DSNT                                                            | LHWT | Logging Horizontal Water Tank?                       | No                       |      |
| SDLT                                                            | DNOK | Process Density?                                     | Yes                      |      |
| SDLT                                                            | DNOK | Process Density EVR?                                 | No                       |      |
| SDLT                                                            | CB   | Logging Calibration Blocks?                          | No                       |      |
| SDLT                                                            | SPVT | SDLT Pad Temperature Valid?                          | Yes                      |      |
| SDLT                                                            | DTWN | Disable temperature warning                          | No                       |      |
| SDLT                                                            | DMA  | Formation Density Matrix                             | 2.710                    | g/cc |
| SDLT                                                            | DFL  | Formation Density Fluid                              | 1.000                    | g/cc |
| SDLT                                                            | CLOK | Process Caliper Outputs?                             | Yes                      |      |
| SDLT                                                            | MLOK | Process MicroLog Outputs?                            | Yes                      |      |
| ACRt                                                            | RTOK | Process ACRt?                                        | Yes                      |      |
| ACRt                                                            | MNSO | Minimum Tool Standoff                                | 1.50                     | in   |
| ACRt                                                            | TCS1 | Temperature Correction Source                        | FP Lwr & FP Upr          |      |
| ACRt                                                            | TPOS | Tool Position                                        | Free Hanging             |      |
| ACRt                                                            | RMOP | Rmud Source                                          | Mud Cell                 |      |
| ACRt                                                            | RMIN | Minimum Resistivity for MAP                          | 0.20                     | ohmm |
| ACRt                                                            | RMIN | Maximum Resistivity for MAP                          | 200.00                   | ohmm |
| ACRt                                                            | THQY | Threshold Quality                                    | 0.50                     |      |
| BOTTOM                                                          |      |                                                      |                          |      |
| Data: WELINGTN_KGS_R2I0001 SP-GTET-CSNG-GEM-DSN-SDL-ACRT-CHIDLE |      |                                                      | Date: 09-Feb-11 06:07:06 |      |

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|----------------------------------|------------------------------|------------|-------------|--------------------|
| INPUTS, DELAYS AND FILTERS TABLE |                              |            |             |                    |
| Mnemonic                         | Input Description            | Delay (ft) | Filter Type | Filter Length (ft) |
| Depth Panel                      |                              |            |             |                    |
| TENS                             | Tension                      | 0.00       | NO          |                    |
| CH_HOS                           |                              |            |             |                    |
| DHTN                             | DownholeTension              | 0.00       | BLK         | 0.000              |
| SP Sub                           |                              |            |             |                    |
| PLTC                             | Plot Control Mask            | 68.62      | NO          |                    |
| SP                               | Spontaneous Potential        | 68.62      | BLK         | 1.250              |
| SPR                              | Raw Spontaneous Potential    | 68.62      | NO          |                    |
| SPO                              | Spontaneous Potential Offset | 68.62      | NO          |                    |
| GTET                             |                              |            |             |                    |

|      |                                                         |       |     |               |
|------|---------------------------------------------------------|-------|-----|---------------|
| TPUL | Tension Pull                                            | 60.59 | NO  |               |
| GR   | Natural Gamma Ray API                                   | 60.59 | TRI | 1.750         |
| GRU  | Unfiltered Natural Gamma Ray API                        | 60.59 | NO  |               |
| EGR  | Natural Gamma Ray API with Enhanced Vertical Resolution | 60.59 | W   | 1.416 , 0.750 |
| ACCZ | Accelerometer Z                                         | 0.00  | BLK | 0.083         |
| DEVI | Inclination                                             | 0.00  | NO  |               |
|      |                                                         |       |     |               |
| CSNG |                                                         |       |     |               |
| TPUL | Tension Pull                                            | 52.51 | NO  |               |
| STAT | Status                                                  | 52.51 | NO  |               |
| FRMC | Tool Frame Count                                        | 52.51 | BLK | 0.250         |
| TFRM | Total Frames                                            | 52.51 | NO  |               |
| LSPD | Line Speed                                              | 52.51 | BLK | 0.250         |
| CTIM | Accumulation time for sample                            | 52.51 | BLK | 0.250         |
| NOIS | Spectral Noise                                          | 52.51 | BLK | 0.250         |
| STAB | Stabilizer Voltage in mv                                | 52.51 | BLK | 0.250         |
| STBP | Stabilizer 60 KEV Peak                                  | 52.51 | BLK | 0.250         |
| AMER | Americium                                               | 52.51 | BLK | 0.250         |
| FTMP | Flask PCB Temperature                                   | 52.51 | BLK | 0.250         |
| SPEL | Low Energy Spectrum                                     | 52.51 | BLK | 0.250         |
| SPEH | High Energy Spectrum                                    | 52.51 | BLK | 0.250         |
| SSP  | Stabilization Energy Spectrum                           | 52.51 | BLK | 0.250         |
| CSPC | CSNG Lo Hi Spectrum Data                                | 52.51 | NO  |               |
|      |                                                         |       |     |               |
| GEMT |                                                         |       |     |               |
| TPUL | Tension Pull                                            | 42.49 | NO  |               |
| FRMC | Tool Frame Count                                        | 42.49 | NO  |               |
| TFRM | Total Frames                                            | 42.49 | NO  |               |
| LSPD | Line Speed                                              | 42.49 | NO  |               |
| ATIM | Accumulation time for sample                            | 42.49 | NO  |               |
| CTIM | Accumulation time for single frame                      | 42.49 | NO  |               |
| STAT | Status                                                  | 42.49 | NO  |               |
| PHMI | Photomultiplier Current                                 | 42.49 | NO  |               |
| PHVT | Photomultiplier Voltage                                 | 42.49 | NO  |               |
| FTMP | Flask PCB Temperature                                   | 42.49 | NO  |               |
| GSP  | GEMT Spectrum                                           | 42.49 | NO  |               |
|      |                                                         |       |     |               |
| DSNT |                                                         |       |     |               |
| TPUL | Tension Pull                                            | 32.54 | NO  |               |
| RNDS | Near Detector Telemetry Counts                          | 32.64 | BLK | 1.417         |
| RFDS | Far Detector Telemetry Counts                           | 33.39 | TRI | 0.583         |
| DNTT | DSN Tool Temperature                                    | 32.64 | NO  |               |
| DSNS | DSN Tool Status                                         | 32.54 | NO  |               |
| ERND | Near Detector Telemetry Counts EVR                      | 32.64 | BLK | 0.000         |
| ERFD | Far Detector Telemetry Counts EVR                       | 33.39 | BLK | 0.000         |
| ENTM | DSN Tool Temperature EVR                                | 32.64 | NO  |               |
|      |                                                         |       |     |               |
| SDLT |                                                         |       |     |               |
| TPUL | Tension Pull                                            | 22.64 | NO  |               |
| NAB  | Near Above                                              | 22.46 | BLK | 0.920         |
| NHI  | Near Cesium High                                        | 22.46 | BLK | 0.920         |
| NLO  | Near Cesium Low                                         | 22.46 | BLK | 0.920         |
| NVA  | Near Valley                                             | 22.46 | BLK | 0.920         |
| NBA  | Near Barite                                             | 22.46 | BLK | 0.920         |
| NDE  | Near Density                                            | 22.46 | BLK | 0.920         |
| NPK  | Near Peak                                               | 22.46 | BLK | 0.920         |



|      |                            |       |     |       |
|------|----------------------------|-------|-----|-------|
| NLI  | Near Lithology             | 22.46 | BLK | 0.920 |
| NBAU | Near Barite Unfiltered     | 22.46 | BLK | 0.250 |
| NLIU | Near Lithology Unfiltered  | 22.46 | BLK | 0.250 |
| FAB  | Far Above                  | 22.81 | BLK | 0.250 |
| FHI  | Far Cesium High            | 22.81 | BLK | 0.250 |
| FLO  | Far Cesium Low             | 22.81 | BLK | 0.250 |
| FVA  | Far Valley                 | 22.81 | BLK | 0.250 |
| FBA  | Far Barite                 | 22.81 | BLK | 0.250 |
| FDE  | Far Density                | 22.81 | BLK | 0.250 |
| FPK  | Far Peak                   | 22.81 | BLK | 0.250 |
| FLI  | Far Lithology              | 22.81 | BLK | 0.250 |
| PTMP | Pad Temperature            | 22.65 | BLK | 0.920 |
| NHV  | Near Detector High Voltage | 19.83 | NO  |       |
| FHV  | Far Detector High Voltage  | 19.83 | NO  |       |
| ITMP | Instrument Temperature     | 19.83 | NO  |       |
| DDHV | Detector High Voltage      | 19.83 | NO  |       |
| TPUL | Tension Pull               | 22.65 | NO  |       |
| PCAL | Pad Caliper                | 22.65 | TRI | 0.250 |
| ACAL | Arm Caliper                | 22.65 | TRI | 0.250 |
| TPUL | Tension Pull               | 22.83 | NO  |       |
| MINV | Microlog Lateral           | 22.83 | BLK | 0.750 |
| MNOR | Microlog Normal            | 22.83 | BLK | 0.750 |
| ACRt |                            |       |     |       |
| TPUL | Tension Pull               | 2.97  | NO  |       |
| F1R1 | ACRT 12KHz - 80in R value  | 9.22  | BLK | 0.000 |
| F1X1 | ACRT 12KHz - 80in X value  | 9.22  | BLK | 0.000 |
| F1R2 | ACRT 12KHz - 50in R value  | 6.72  | BLK | 0.000 |
| F1X2 | ACRT 12KHz - 50in X value  | 6.72  | BLK | 0.000 |
| F1R3 | ACRT 12KHz - 29in R value  | 5.22  | BLK | 0.000 |
| F1X3 | ACRT 12KHz - 29in X value  | 5.22  | BLK | 0.000 |
| F1R4 | ACRT 12KHz - 17in R value  | 4.22  | BLK | 0.000 |
| F1X4 | ACRT 12KHz - 17in X value  | 4.22  | BLK | 0.000 |
| F1R5 | ACRT 12KHz - 10in R value  | 3.72  | BLK | 0.000 |
| F1X5 | ACRT 12KHz - 10in X value  | 3.72  | BLK | 0.000 |
| F1R6 | ACRT 12KHz - 6in R value   | 3.47  | BLK | 0.000 |
| F1X6 | ACRT 12KHz - 6in X value   | 3.47  | BLK | 0.000 |
| F2R1 | ACRT 36KHz - 80in R value  | 9.22  | BLK | 0.000 |
| F2X1 | ACRT 36KHz - 80in X value  | 9.22  | BLK | 0.000 |
| F2R2 | ACRT 36KHz - 50in R value  | 6.72  | BLK | 0.000 |
| F2X2 | ACRT 36KHz - 50in X value  | 6.72  | BLK | 0.000 |
| F2R3 | ACRT 36KHz - 29in R value  | 5.22  | BLK | 0.000 |
| F2X3 | ACRT 36KHz - 29in X value  | 5.22  | BLK | 0.000 |
| F2R4 | ACRT 36KHz - 17in R value  | 4.22  | BLK | 0.000 |
| F2X4 | ACRT 36KHz - 17in X value  | 4.22  | BLK | 0.000 |
| F2R5 | ACRT 36KHz - 10in R value  | 3.72  | BLK | 0.000 |
| F2X5 | ACRT 36KHz - 10in X value  | 3.72  | BLK | 0.000 |
| F2R6 | ACRT 36KHz - 6in R value   | 3.47  | BLK | 0.000 |
| F2X6 | ACRT 36KHz - 6in X value   | 3.47  | BLK | 0.000 |
| F3R1 | ACRT 72KHz - 80in R value  | 9.22  | BLK | 0.000 |
| F3X1 | ACRT 72KHz - 80in X value  | 9.22  | BLK | 0.000 |
| F3R2 | ACRT 72KHz - 50in R value  | 6.72  | BLK | 0.000 |
| F3X2 | ACRT 72KHz - 50in X value  | 6.72  | BLK | 0.000 |
| F3R3 | ACRT 72KHz - 29in R value  | 5.22  | BLK | 0.000 |
| F3X3 | ACRT 72KHz - 29in X value  | 5.22  | BLK | 0.000 |
| F3R4 | ACRT 72KHz - 17in R value  | 4.22  | BLK | 0.000 |

|                                                                 |                                               |       |     |                          |
|-----------------------------------------------------------------|-----------------------------------------------|-------|-----|--------------------------|
| F3X4                                                            | ACRT 72KHz - 17in X value                     | 4.22  | BLK | 0.000                    |
| F3R5                                                            | ACRT 72KHz - 10in R value                     | 3.72  | BLK | 0.000                    |
| F3X5                                                            | ACRT 72KHz - 10in X value                     | 3.72  | BLK | 0.000                    |
| F3R6                                                            | ACRT 72KHz - 6in R value                      | 3.47  | BLK | 0.000                    |
| F3X6                                                            | ACRT 72KHz - 6in X value                      | 3.47  | BLK | 0.000                    |
| RMUD                                                            | Mud Resistivity                               | 12.76 | BLK | 0.000                    |
| F1RT                                                            | Transmitter Reference 12 KHz Real Signal      | 2.97  | BLK | 0.000                    |
| F1XT                                                            | Transmitter Reference 12 KHz Imaginary Signal | 2.97  | BLK | 0.000                    |
| F2RT                                                            | Transmitter Reference 36 KHz Real Signal      | 2.97  | BLK | 0.000                    |
| F2XT                                                            | Transmitter Reference 36 KHz Imaginary Signal | 2.97  | BLK | 0.000                    |
| F3RT                                                            | Transmitter Reference 72 KHz Real Signal      | 2.97  | BLK | 0.000                    |
| F3XT                                                            | Transmitter Reference 72 KHz Imaginary Signal | 2.97  | BLK | 0.000                    |
| TFPU                                                            | Upper Feedpipe Temperature Calculated         | 2.97  | BLK | 0.000                    |
| TFPL                                                            | Lower Feedpipe Temperature Calculated         | 2.97  | BLK | 0.000                    |
| ITMP                                                            | Instrument Temperature                        | 2.97  | BLK | 0.000                    |
| TCVA                                                            | Temperature Correction Values Loop Off        | 2.97  | NO  |                          |
| TIDV                                                            | Instrument Temperature Derivative             | 2.97  | NO  |                          |
| TUDV                                                            | Upper Temperature Derivative                  | 2.97  | NO  |                          |
| TLDV                                                            | Lower Temperature Derivative                  | 2.97  | NO  |                          |
| TRBD                                                            | Receiver Board Temperature                    | 2.97  | NO  |                          |
| Data: WELINGTN_KGS_R2I0001 SP-GTET-CSNG-GEM-DSN-SDL-ACRT-CHIDLE |                                               |       |     | Date: 09-Feb-11 06:05:25 |

|             |                      |          |        |
|-------------|----------------------|----------|--------|
| COMPANY     | BEREXCO INC.         |          |        |
| WELL        | WELLINGTON KGS #1-32 |          |        |
| FIELD       | WELLINGTON           |          |        |
| COUNTY      | SUMNER               | STATE    | KANSAS |
| HALLIBURTON |                      | MICROLOG |        |